

cc: Monticello BLM, Moab BLM, Summit, & UDOGM

Form 3160-3  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 2010

5. Lease Serial No.  
UTU-085274

6. If Indian, Allottee or Tribe Name  
N/A

7. If Unit or CA Agreement, Name and No.  
N/A

8. Lease Name and Well No.  
CACTUS PARK 7-19-36-25

9. API Well No.  
43-037-31914

10. Field and Pool, or Exploratory  
~~CACTUS PARK~~ Wildcat

11. Sec., T. R. M. or Blk. and Survey or Area  
SEC. 19, T. 36 S., R. 25 E. SLM  
SWNE

12. County or Parish  
SAN JUAN

13. State  
UT

1a. Type of work: ☒ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

2. Name of Operator SUMMIT OPERATING, LLC

3a. Address 1441 WEST UTE BLVD., SUITE 280,  
PARK CITY, UT 84098

3b. Phone No. (include area code)  
(435) 940-9001

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*

At surface 1947' FNL & 1890' FEL 657864X 37.644579

At proposed prod. zone 4167683Y -109.210672

14. Distance in miles and direction from nearest town or post office\*  
17 AIR MILES SOUTHEAST OF MONTICELLO, UT

15. Distance from proposed\* location to nearest property or lease line, ft.  
(Also to nearest drig. unit line, if any)  
1,947'

16. No. of acres in lease  
1,885.52

17. Spacing Unit dedicated to this well  
40 ACRES (SWNE SEC. 19)

18. Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft.  
N/A

19. Proposed Depth  
6,000'

20. BLM/BIA Bond No. on file  
UTB000014 (Statewide)

21. Elevations (Show whether DF, KDB, RT, GL, etc.)  
5,974' GL

22. Approximate date work will start\*  
09/01/2010

23. Estimated duration  
1 MONTH

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, must be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Name (Printed/Typed)  
BRIAN WOOD (505 466-8120)

Date  
07/12/2010

Title

CONSULTANT

Approved by (Signature)

Name (Printed/Typed)  
BRADLEY G. HILL  
OFFICE ENVIRONMENTAL MANAGER

Date  
07-19-10

Title

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

\*(Instructions on page 2)

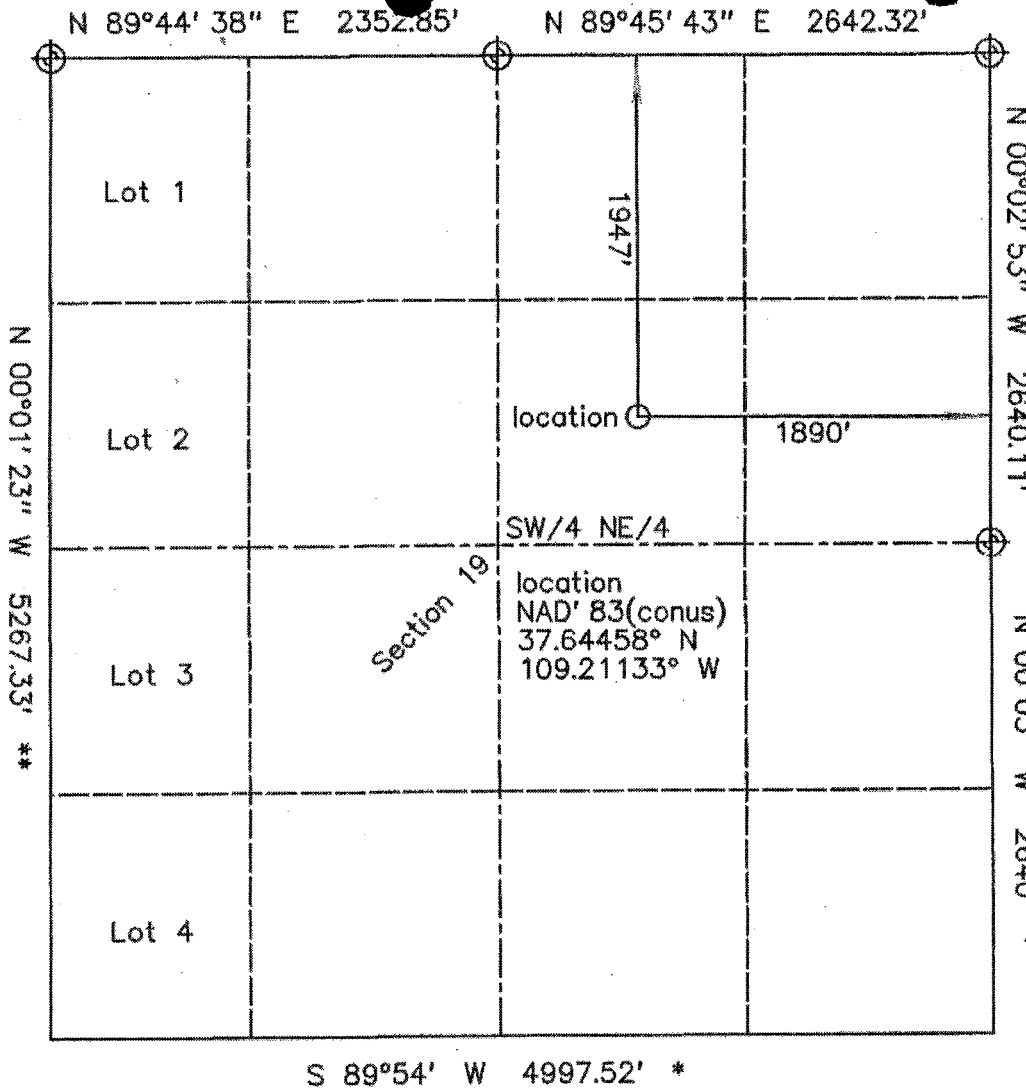
Federal Approval of this  
Action is Necessary

RECEIVED

JUL 15 2010

DIV. OF OIL, GAS & MINING

# WELL LOCATION PLAT



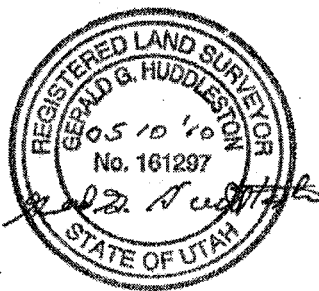
Scale: 1" = 1000'  
Basis of bearing is GPS  
True North as shown.

⊕ standard GLO/BLM monument  
\* from GLO/BLM  
\*\* calculated

SUMMIT OPERATING, LLC  
Cactus Park 7-19-36-25  
1947' FNL & 1890' FEL  
Section 19, T.36 S., R.25 E., SLM  
San Juan County, UT  
5974' grd. el. NAVD '88 (from OPUS)

## Notes:

Distances/dimensions are perpendicular to section/aliquot lines.



## SURVEYORS CERTIFICATE:

I, Gerald G. Huddleston, do hereby certify that I am a registered Utah land surveyor holding certificate number 161297 as prescribed under the laws of the State of Utah, and I further certify that under authority of the operator I have surveyed the well location shown hereon and that the same is correct and true to the best of my knowledge and belief.

date of survey : 05/05/2010

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1. GEOLOGY (based on graded GL = 5973' & KB = 5,989')

<u>Formation</u>	<u>TVD Interval (KB)</u>	<u>Contents</u>	<u>Pressure Gradient</u>
Morrison	16' - 885'	Water	
Navajo Sandstone	885' - 1605'	Water	
Chinle Shale	1605' - 4401'		
Honaker Trail	4401' - 5609'		
Marker 2	4565'		
Pay Sand	4597'	Gas & Water	0.43 psi/ft
Marker 1	4611'		
Upper Ismay	5609' - 5705'		
Hovenweep Shale	5705' - 5770'	Gas	0.44 psi/ft
Lower Ismay	5770' - 5818'		
Gothic Shale	5818' - 5845'	Gas	0.44 psi/ft
Desert Creek	5845' - 5917'	Gas & Water	0.44 psi/ft
Chimney Rock	5917' - 5939'		
Akah Shale	5939'		
Total Depth	6000'		

2. PRESSURE CONTROL EQUIPMENT (See PAGE 2)

The drilling contract has not yet been awarded, thus the exact BOP model to be used is not yet known. A  $\geq 3,000$  psi system will be used. Diagram of a typical 3,000 psi system is on the next page. The system will be installed and tested before drilling out the surface casing shoe. All connections subject to well pressures will be flanged, welded, or clamped. The system will include:

Well Head (all 11" x 3,000#)

annular preventer

double ram (pipe - top, blind - bottom)

drilling spool with 2 side outlets (one 3" minimum and one 2" minimum)

casing head (9-5/8" SOW w/ two 2" LPO's)

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Auxiliary Equipment (3,000 psi minimum)

choke line (3" minimum) with 2 valves

kill line (2" minimum) with two valves and one check valve

2 chokes (1 remotely controlled at a location readily accessible to the driller)

upper and lower kelly cock valves with handles available

safety valves to fit all drill string connections in use

inside BOP or float sub

pressure gauge on choke manifold

fill-up line above the uppermost preventer

wear bushing in casing head

3. PRESSURE CONTROL PROCEDURES

Choke manifold will be functionally equipped and sized at a minimum as shown on the attached diagram. All chokes will be straight lines, or use tee blocks or be targeted with running tees if there are turns, and all choke lines will be anchored. All valves (except chokes) in the kill line choke manifold and choke line will be full opening and allow straight through flow. Pressure gauges will be designed for drilling fluid service.

System accumulator will have sufficient capacity to open the hydraulically controlled gate valve and close all rams plus the annular preventer (3 ram system will have added 50 percent safety factor to compensate for any fluid loss in the control system or preventers) and retain a minimum pressure of 200 psi above pre-charge on the closing manifold without use of the closing unit pumps. The fluid reservoir capacity shall be double the usable fluid volume of the accumulator system capacity and the fluid level of the reservoir shall be maintained at the manufacturer's recommendations. The accumulator will have two (2) independent power sources available to close the preventers. Nitrogen bottles may be one of those sources, and if so, will have charge maintained per manufacturer's specifications.

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Accumulator pre-charge pressure test will be conducted prior to connecting the closing unit to the BOP stack and at least once every 6 months. The accumulator pressure will be corrected if the measured pre charge pressure is found to be above or below the maximum or minimum specified limits. Only nitrogen gas will be used to pre charge.

Power for the closing unit pumps will be available to the unit at all times so that the pumps will automatically start when the closing valve manifold pressure has decreased to the preset level.

Accumulator pump capacity will be such that, with the accumulator system isolated from service, the pumps will be capable of opening the hydraulically operated gate valve (if so equipped), plus closing the annular preventer on the smallest size drill pipe to be used within 2 minutes, and retaining a minimum of 200 psi above the specified accumulator pre-charge pressure.

Locking devices, either manual (i. e., hand wheels) or automatic, will be installed on the ram type preventers. A valve will be installed in the closing line as close as possible to the annular preventer to act as a locking device. This valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative.

Remote controls will be readily accessible to the driller and will be capable of both opening and closing all preventers. Master controls shall be at the accumulator and shall be capable of opening and closing all preventers and the choke line valve.

Well control equipment testing will be performed using clear water when the equipment is initially installed, whenever any seal subject to test pressure is broken, following related repairs, and as a minimum, every 30 day interval. The tests will apply to all related well control equipment.

Ram type preventers and associated equipment will be isolated and tested to

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≈3,000 psi. The annular preventer will be tested to ≈1,500 psi. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer, for all tests. A casing head valve will be open below the test plug during testing of the BOP stack. Valves will be tested from the working pressure side with all downstream valves open. Kill line valves will be tested with the check valve held open or the ball removed.

Pipe and blind rams will be activated each trip, but not more than once a day. The annular preventers will be functionally operated at least weekly. A pit level drill will be conducted weekly for each crew. All BOPE drills and tests will be recorded in the IADC driller's log.

#### 4. CASING & CEMENT

<u>Hole Size</u>	<u>Casing</u>	<u>#/foot</u>	<u>Grade</u>	<u>Connection</u>	<u>Coupling</u>	<u>Age</u>	<u>Interval</u>
17.5"	13.375"	48	H-40	ST & C	14.375"	New	0' - 40'
12.25"	9.625"	36	J-55	ST & C	10.625"	New	0' - 1,805'
8.75"	5.5"	17	N-80	LT & C	6.05"	New	0' - 6,000'

	<u>Surface</u>	<u>Production</u>
Maximum Mud Weight - Inside (ppg)	9.6	9.6
Maximum Mud Weight - Outside (ppg)	9.6	9.6
Design Cement Top - TVD (ft)	0	1500
Design Cement Top - MD (ft)	0	1500
Max. Hydrostatic Inside with Dry Outside (psi)	901	2995
Casing Burst Rating (psi)	3520	7740
Burst Safety Factor (1.10 minimum)	3.91	2.58
Max. Hydrostatic Outside with Dry Inside (psi)	901	2995
Collapse Rating	2020	6280
Collapse Safety Factor (1.125 minimum)	2.24	2.10
Casing Weight in air 1000 lb.	65.0	102.0
Body Yield 1000 lb.	564.0	397.0
Joint Strength 1000 lb.	394.0	348.0
Tension Safety Factor (1.70 minimum)	6.06	3.41

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Casing having same or greater burst, collapse, and tension rating may be substituted for any of the planned casing sizes depending on availability and actual conditions.

<u>Casing String</u>	<u>Type Cement</u>	<u>Sacks</u>	<u>#/gal.</u>	<u>feet<sup>3</sup>/sack</u>	<u>feet<sup>3</sup></u>	<u>Excess</u>
Conductor	ready-mix or neat Class G	50	15.8	1.15	57.5	100%
Surface	lead: extended	500	12.4	1.90	950	100%
	tail: Class with 2% CaCl <sub>2</sub>	175	15.6	1.20	210	100%
Production	lead: extended	190	11.0	3.85	731.5	20%
	tail: 50:50 poz premium	500	14.35	1.23	615	20%

Surface casing will be cemented from setting depth (1,805') to surface and topped out with premium cement if necessary. Slurry volume will be gauge hole volume + 100%. Surface casing hardware will include a guide shoe, float collar, top plug, and a minimum of one centralizer per joint on the bottom three casing joints. Water or other pre flush fluid pumped ahead of the slurry will separate cement from the drilling fluids.

Production casing will be run and cemented in one stage from a setting depth of 6,000' (TD) to ≈1,600' (≈200' above top of Chinle). At least 20% silica will be added to the cement slurry if bottom-hole temperature exceeds 230 °F. Slurry volumes will be based on Calpine hole size + 20% excess. Hardware will include a guide shoe, float collar, top plug, and centralizers as needed across pay zones. The lead cement will be an extended light cement to cover from ≈1,600' to ≈4,000'. Tail cement will be 50:50 poz premium cement plus additives to cover from TD to ≈4,000'. Water and pre flush fluid will be pumped ahead of the slurry to separate cement from the drilling fluids.

BLM will be called (435 587-1500 or 587-1525) at least 24 hours before running and cementing the surface and production casing strings. Actual cement slurries for all casing will be based on final service company recommendations.

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The size, weight, grade, type of thread, number of joints, and footage of all casing run will be recorded in the driller's log. The amount and type of all cement pumped will be recorded in the driller's log.

Adequate time will be allowed before drilling out for the cement at the casing shoe to achieve a minimum 500 psi compressive strength.

All casing strings will be tested to  $\approx 1,500$  psi before drilling out. If pressure declines by  $>10\%$  in 30 minutes, then corrective action will be taken.

A pressure integrity test of the casing shoe will be performed before drilling more than 20 feet of new hole below each casing string. The test will be run to a minimum of the mud weight equivalent anticipated for controlling the pore pressure to the next casing depth or at total depth of the well.

##### 5. MUD PROGRAM

<u>Interval</u>	<u>Type</u>	<u>Pounds/Gallon</u>	<u>Viscosity</u>	<u>Fluid Loss</u>
0' - 1,805'	fresh water spud	8.4 - 8.8	27 - 36	no control
1,805' - 4,000'	fresh water/LSND	8.4 - 8.8	27 - 45	no control
4,000' - TD	LSND/lightly dispersed	8.8 - 9.6	34 - 45	6 - 10 cc

After mud up, slow pump rates will be taken daily and recorded in the driller's log. Visual mud monitoring equipment will be in place to detect volume changes indicating loss or gain of circulating fluid volume.

Abnormal pressures are not anticipated. In the event such pressures are encountered, then electronic/mechanical mud monitoring equipment will be in place and include at least a pit volume totalizer (PVT), stroke counter, and flow sensor.

A mud test will be performed every 24 hours after mud up to determine, as applicable: density, viscosity, gel strength, filtrate, and pH.

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Gas detecting equipment will be installed in the mud return system. Hydrocarbon gas shall be monitored for pore pressure changes.

Venting combustible or noncombustible gas is not expected. If needed, a flare system designed to gather and burn all gas will be available. The flare line discharge will be located more than 100 feet from the well head and it will be positioned downwind of the prevailing wind direction. The flare line will have straight lines unless turns are targeted with running tees and it will be anchored. The flare system will have an effective method for ignition. The flare will be pointed toward a subsoil pile and not towards trees.

Abnormal pressure is not expected. If abnormal pressure is encountered, then a mud-gas separator (gas buster) will be installed and operable beginning at a point  $\geq 500$  feet above any anticipated hydrocarbon zone of interest. Lost circulation control materials will be on site.

## 6. TESTS, CORES, & LOGS

A mud logging unit will be in operation from the base of the surface casing to TD. Samples will be caught, cleaned, bagged, and marked.

No drill stem tests are planned.

Whole cores are planned to be taken in the Hovenweep and Gothic Shale formations. Rotary side-wall cores may also be taken at select intervals in conjunction with open-hole logging operations.

Wireline logs will be run as hole conditions allow from TD to the base of the surface casing to assist in determining lithology and potential for hydrocarbon recovery. The logging tools will at a minimum survey resistivity, gamma radiation, and sonic velocity.

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#### 7. DOWN HOLE CONDITIONS

No abnormal pressures, temperatures, or hydrogen sulfide are expected. Pressure gradient is expected to be  $\approx 0.44$  psi/foot. Maximum expected bottom hole temperature will be  $\approx 150^\circ$  F. Lost circulation could be encountered at  $\approx 5,300'$ .

#### 8. OTHER INFORMATION & DOWN HOLE NOTIFICATIONS

The anticipated spud date is upon approval. It is expected it will take about three weeks to drill the well and about ten days to complete the well.

Monticello BLM will be called at (435) 587-1500 or 587-1525:

1 day before spud

50 feet before reaching surface & production casing depths

24 hours before running and cementing surface & production casing strings

3 hours before testing BOP

This well has the identical and original center stake as Santa Fe Energy's previously approved Monument Butte 1-19 (API # 43-037-31436). That location was abandoned before it was built. The stake has not moved, but better survey technology calculates the stake 3' away.

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### Surface Use Plan

#### BEFORE CONSTRUCTION STARTS ....

Depending on the timing and location of activities, surveys for raptors and/or migratory birds may be required. Surveys would be conducted as determined by the BLM. Summit will provide 30 days prior notification to the BLM (435 587-1500 or 587-1524) before starting any construction or drilling activity. BLM will notify Summit if a raptor and/or migratory bird survey is necessary. The operator would be responsible for accomplishing this survey. (Permits West (505 466-8120) can provide a wildlife biologist.) Surveys would be conducted by qualified individuals according to protocol. Based on the result of the field survey, the authorized officer would determine appropriate buffers and timing limitations.

The proposed project is within the area designated by the BLM as crucial deer winter range. No surface disturbing activities can occur between November 15 and April 15 to minimize stress and disturbance to deer.

No construction, drilling, production or routine maintenance activities will be performed during periods when the soil is too wet to adequately support construction equipment and vehicles. If such equipment and vehicles create ruts in excess of 4 inches deep, the soil shall be deemed too wet. This applies to San Juan County B and D roads. If wet weather access is necessary, the roads will be upgraded to an all weather surface. The operator will be responsible for the prompt repair of any road damage caused by activity associated with the project.

All employees, contractors, and subcontractors of the project will be informed that cultural sites are to be avoided by all personnel, personal vehicles and company equipment. Employees will also be notified that it is illegal to collect, damage, or disturb cultural resources. If any new cultural sites are encountered, the contractor will immediately stop all construction

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activities and notify the BLM (435 587-1500). BLM will then evaluate the site. Should a site be evaluated as eligible for inclusion on the National Register of Historic Places, it will be treated in the proper manner to mitigate any effects of construction, according to the guidelines set by BLM.

Utah Air Conservation Regulation R307-205 prohibits the use, maintenance, or construction of roadways or the clearing of land areas greater than 1/4 acre without taking appropriate dust abatement measures. Summit will use water for dust control.

1. DIRECTIONS & EXISTING ROADS (See PAGES 18 - 20)

From the Junction of US 491 and US 191 in Monticello ...

Go East 11.2 miles on US 491

Then turn right onto the paved Eastland Road (County Road 312)

Go South 11.8 miles on County Road 312 to a 2 story metal red roof building

Then turn left and go SE and SW 5.2 miles on dirt County Road 373

Then turn left at a lath and go Southeast 260' cross country to the pad

Route through the trees is marked with lime glow flags and lath

Roads will be maintained to at least equal to their present condition.

2. ROAD TO BE BUILT OR UPGRADED (See PAGE 22)

The final 260' of road will be built to BLM Gold Book standards. This will consist of crowning and ditching with a  $\approx 14'$  wide running surface. Trees will be pushed out of the way, but not crushed. Top 8" of soil will be windrowed beside the borrow ditch. Topsoil will later be spread on the outside slope of each borrow ditch. Borrow ditches will be turned out at least once on each side and skewed to drain. Maximum cut or fill = 3'. Maximum grade = 5%. Maximum disturbed width will be  $\approx 40'$  (includes all of the proposed pipeline

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corridor). No upgrade, culvert, cattle guard, or vehicle turnout will be needed.

### 3. EXISTING WELLS (See PAGE 21)

One gas well and four plugged wells are within a one mile radius. There are no oil, water, or disposal wells within a mile.

### 4. PROPOSED PRODUCTION FACILITIES (See PAGES 22 & 26)

Two  $\leq 400$  barrel tanks (1 water & 1 gas liquids) gas meter, and a separator will be installed on the well pad. All will be painted a flat juniper green. There will be no engines. All emission control rules will be followed.

The tank battery will be enclosed within a compacted earth berm (secondary containment) to contain any potential spills. At a minimum, the berm must comply with 40 CFR 112 which requires that the berm have the capacity of the largest single container and sufficient freeboard to contain precipitation. A  $\approx 3"$  O. D. steel gas pipeline will be laid on the surface from the pad to Summit's existing surface gas pipeline on the north side of County Road 373. Pipeline length will be  $\approx 290'$ . Pipeline will be buried  $> 36"$  deep where it crosses road 373. Pipeline will be laid on the west side of the new road.

During pipeline construction, equipment will stay on the driving surface of the road to the extent possible. The soil surface of the pipeline ROW will not be bladed. Clearing of vegetation will be minimized. Limbing will be done before felling trees. Felling trees will be done instead of blading. The corridor for the road and pipeline will not exceed 40 feet in width. The pipe would be placed on or as near to the surface of the ground as is practical. The pipe will not be supported in an elevated position by rocks, trees, or other obstacles.

Only material and equipment necessary for daily production activities will be

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kept on location. All other materials and equipment would be removed.

Secondary containment trays will be used for all chemical containers. Covered drip pans will be used for oil and produced water load out points. Trays will be equipped with protection to prevent animals from gaining access to contents. The operator will promptly empty these trays of any spills or precipitation that may accumulate.

The operator will maintain all equipment free of oil and produced water leaks. If leaks develop, Summit will promptly repair the leaks and any contaminated soil will be removed and properly disposed.

#### 5. WATER SUPPLY

Water will be trucked from fire hydrants in the Cities of Monticello or Dove Creek via existing roads. Both cities have agreed to provide water. The City of Monticello has multiple water sources and rights (09-777, 09-881, 09-1029, 09-1278, 09-2190, 09-2009, 09-2136, et al) which are commingled.

#### 6. CONSTRUCTION MATERIALS & METHODS (see PAGES 22 - 24)

Trees will be rolled aside and not crushed. The top 8" of soil and brush will be bladed and piled around the pad in a separate pile from the trees. A diversion ditch will be cut on the north side of the pad.

If needed, the reserve pit will be lined a minimum 12 mil liner or with at least 24 tons of commercial bentonite worked into 3:1 sides. No liquid hydrocarbons will be discharged to the pit, pad, or road. Should hydrocarbons escape, they will be cleaned up and removed within 48 hours.

The pit will be fenced 48" high on 3 sides with 32" high woven wire topped

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with 2 barbed or twisted smooth wire stands 4" and 16" above the woven wire. Steel T posts will be set  $\approx 16.5'$  apart. Corner posts will be  $\geq 6"$  O. D. wood and anchored with a dead man.

When fencing is completed, netting will be place over the pit and fence, extending to below the ground level, to prevent birds and small animals from gaining access to and becoming trapped in the contents of the pit. The net will be supported to maintain adequate clearance between the net and the contents of the pit. The fence and net will be maintained until the pit is closed and reclaimed. Emergency pits associated with production will be subject to the same fence and net requirements as the reserve pit. The fourth side will be fenced and netted in the same manner when drilling stops.

#### 7. WASTE DISPOSAL

All trash will be placed in a portable trash cage. It will be hauled to a state approved landfill or transfer station. There will be no burial or burning. Human waste will be disposed of in chemical toilets or holding tanks. Their contents will be hauled to a state approved dump station.

#### 8. ANCILLARY FACILITIES

There will be no off pad camp, air strip, or staging area. Camper trailers will be parked only on the pad for the company man, tool pusher, and mud logger.

#### 9. WELL SITE LAYOUT (See PAGES 22 - 25)

See attached drawings for depictions of the well pad, reserve pit, access onto the pad, cross section, cut and fill diagram, drill rig, diversion ditch, and soil piles.

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#### 10. RECLAMATION (See PAGE 27)

Interim reclamation will begin as soon as practicable after production has been established and would be accomplished on all disturbed areas of the road and well pad not required for travel or production. Interim reclamation consists of ripping areas where the soil has become compacted by the operation of equipment and vehicles, evenly spreading the reserved topsoil, and seeding the prepared areas. Seed can be drilled or broadcast. If seed is broadcast, the application rate will be doubled and the seed will be covered with some type of drag (chain, bed spring).

Reclamation of the reserve pit would be accomplished in accordance with Onshore Order #1, XII, B., and the guidelines in the Gold Book. Closure and reclamation of the reserve pit will not occur until the pit contents are sufficiently dry. Any hydrocarbons must be removed and the pit liner removed to the solids level prior to back filling with excavated material. Earthwork for pit closure and reclamation will be completed within six months of well completion or well plugging, provided weather and wildlife restrictions allow. If necessary, pit fluids would be pumped off and properly disposed of to allow for timely closure of the pit.

If the well should prove unproductive or upon final abandonment, all disturbed areas will be subject to final reclamation. Final reclamation will include:

- Removal of gravel or stone that may have been placed on the road or pad to allow for all weather operations
- Reserving any topsoil that was spread during interim reclamation
- Recontouring all disturbed areas to the original contour or a contour that blends with the surrounding topography
- Spreading reserved topsoil evenly over all disturbed areas
- Seeding all disturbed areas. Seed can be drilled or broadcast. If seed is broadcast, the application rate will be doubled and the seed would be covered with some type of drag.
- The new road will be barricaded with a large berm, trees, or rocks to

Summit Operating, LLC  
Cactus Park 7-19-36-25  
1947' FNL & 1890' FEL  
Sec. 19, T. 36 S., R. 25 E.  
San Juan County, Utah

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prevent vehicle access

The seed mix to be used in interim and final reclamation is:

<u>Species</u>	<u>Variety or Cultivator</u>	<u>pounds pure live seed per acre</u>
Four wing saltbush	<i>Atriplex canescens</i>	2.0
Antelope bitterbrush	<i>Purshia tridentata</i>	2.0
Crested wheatgrass	<i>Agropyron desertorum</i>	2.0
Indian ricegrass	<i>Oryzopsis hymenoides</i>	2.0
Galleta grass	<i>Hilaria jamesii</i>	1.0
Scarlet globemallow or	<i>Sphaeralcea coccinea</i>	1.0
Cicer milkvetch	<i>Astragalus sabulosus</i>	1.0

Trees, rocks, etc. that were rolled to the side during construction would be scattered after seeding operations are completed.

#### 11. SURFACE OWNER

All construction will be on lease and on BLM. Land use will be:

195' x 275' well pad = 1.23 acre  
40' x 290' pipeline corridor\* = 0.27 acre  
+ 50' wide tree & topsoil piles around pad perimeter = 1.08 acre  
total land use = 2.58 acres

\*includes 260' new road

#### 12. OTHER INFORMATION

The nearest hospital is an hour drive away in Monticello. It is 3 blocks northwest of the intersection of US 491 and US 191. Hospital phone number is (435) 587-2116.

Summit Operating, LLC  
Cactus Park 7-19-36-25  
1947' FNL & 1890' FEL  
Sec. 19, T. 36 S., R. 25 E.  
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13. CERTIFICATION & REPRESENTATION

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U. S. C. 1001 for the filing of false statements. Executed this 12th day of July, 2010.



\_\_\_\_\_  
Brian Wood, Consultant  
Permits West, Inc.

37 Verano Loop, Santa Fe, NM 87508

(505) 466-8120

FAX: (505) 466-9682

Cellular: (505) 699-2276

The field representatives will be:

Ellis Peterson or Red Roush  
Summit Operating, LLC

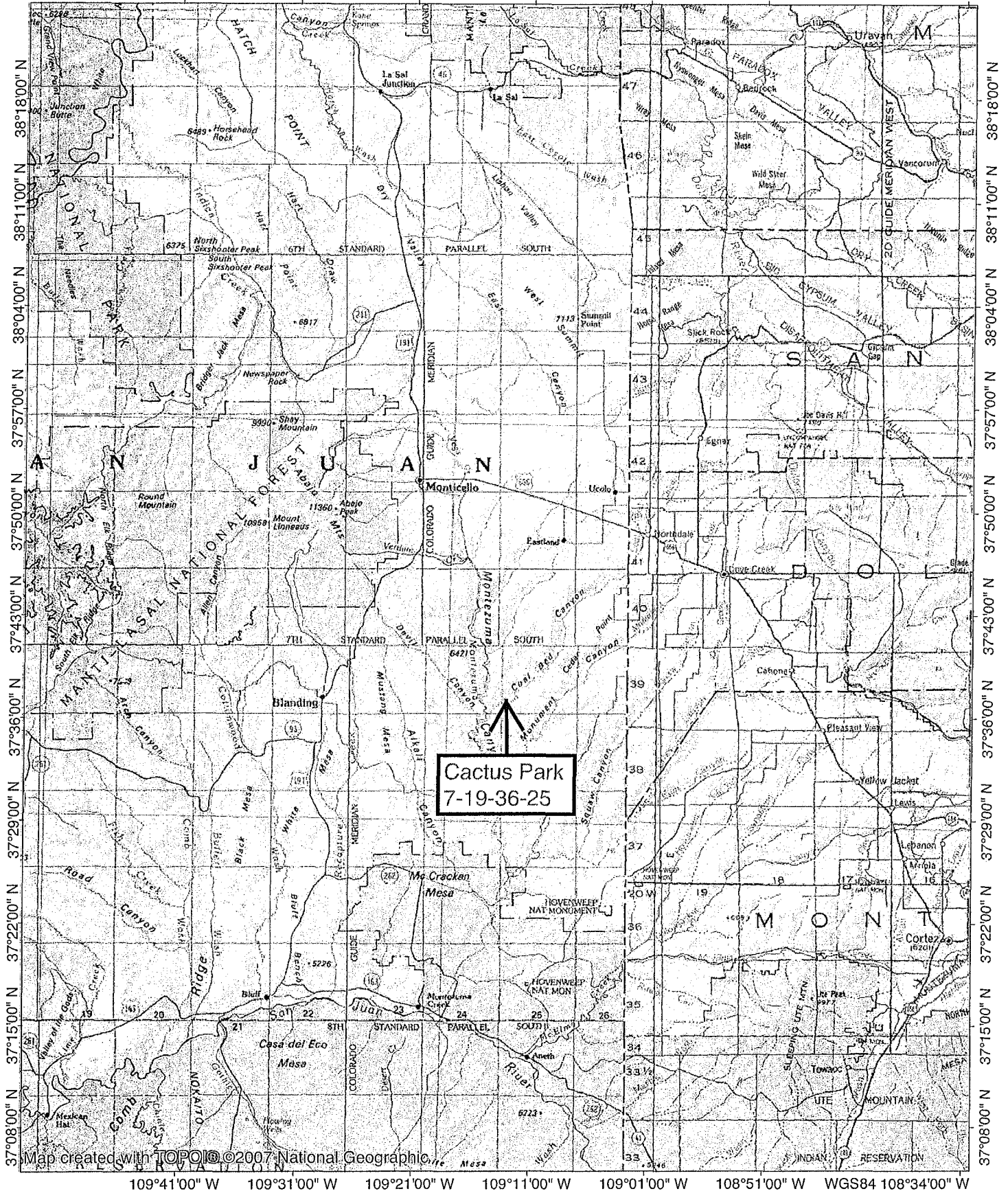
1441 West Ute Blvd., Suite 280, Park City, UT 84098

Office: (435) 940-9001

FAX: (435) 940-9002

TOPO! map printed on 07/11/10 from ".tpo"

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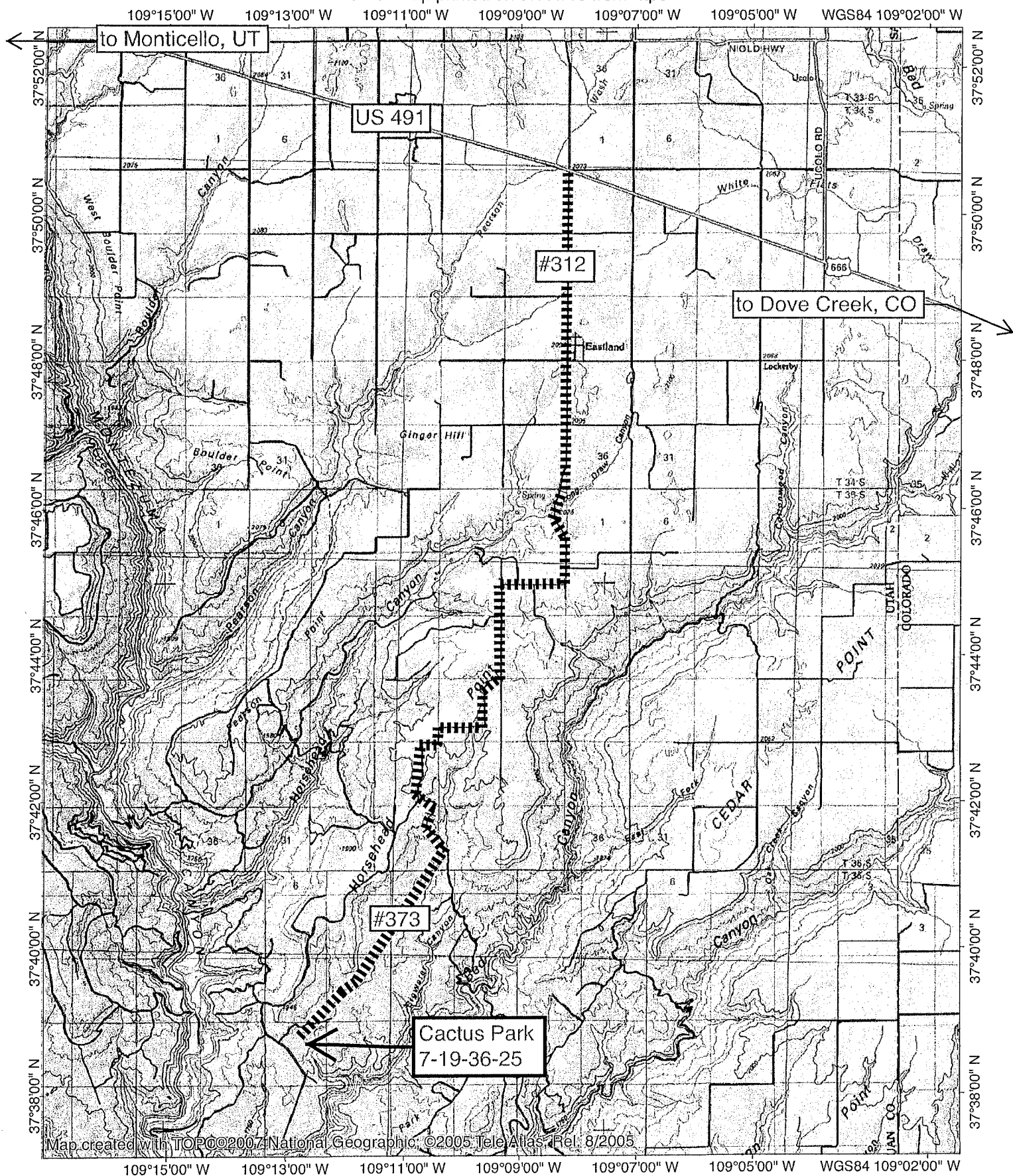


NATIONAL  
GEOGRAPHIC

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0 10 20 30 km

TN↑MN  
10.5°  
07/11/10

TOPO! map printed on 07/11/10 from ".tpo"

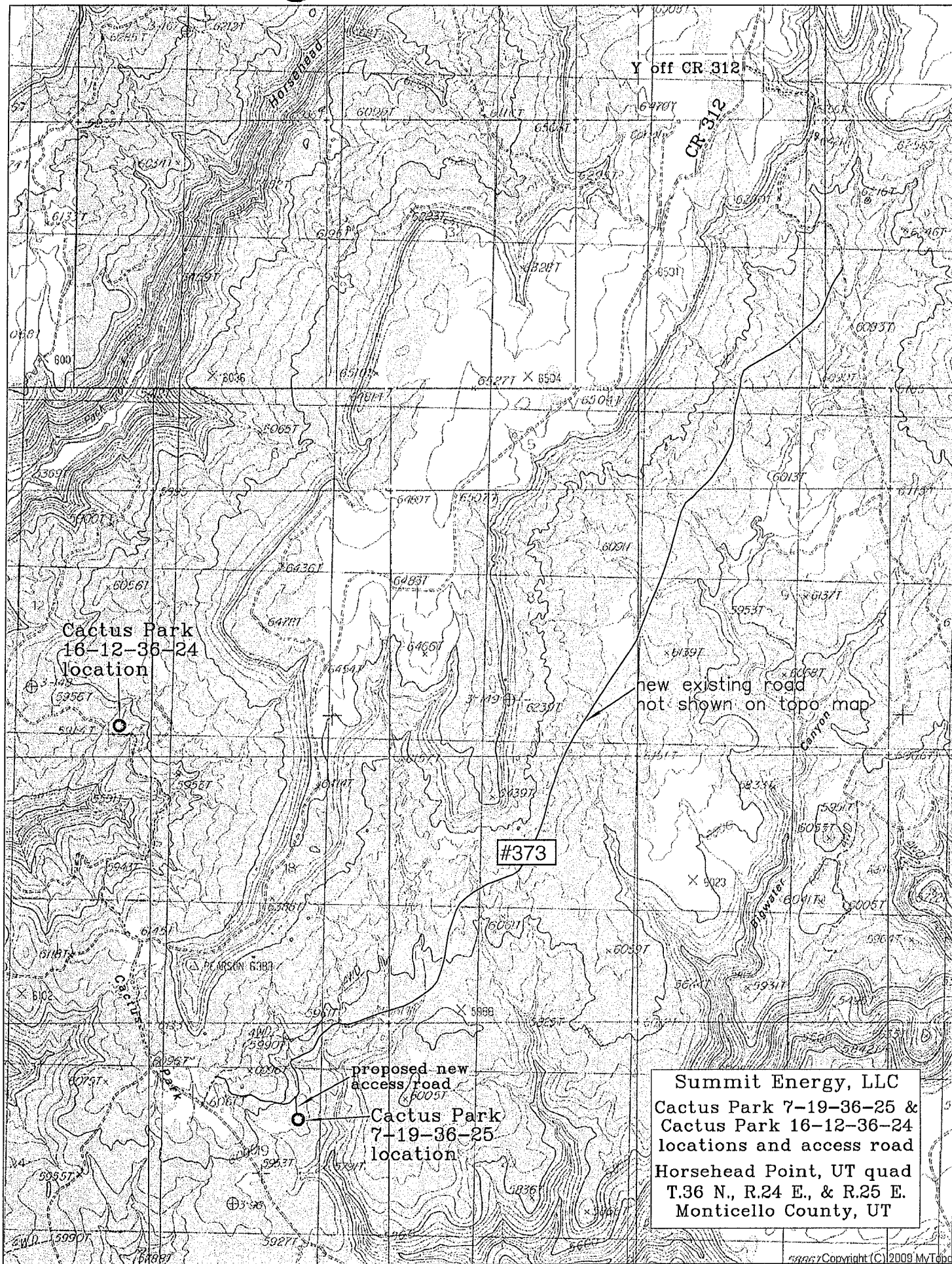


Map created with TOPO! 2007 by National Geographic, ©2005 TeleAtlas, Rel. 8/2005

NATIONAL  
GEOGRAPHIC

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0 1 2 3 4 5 6 km

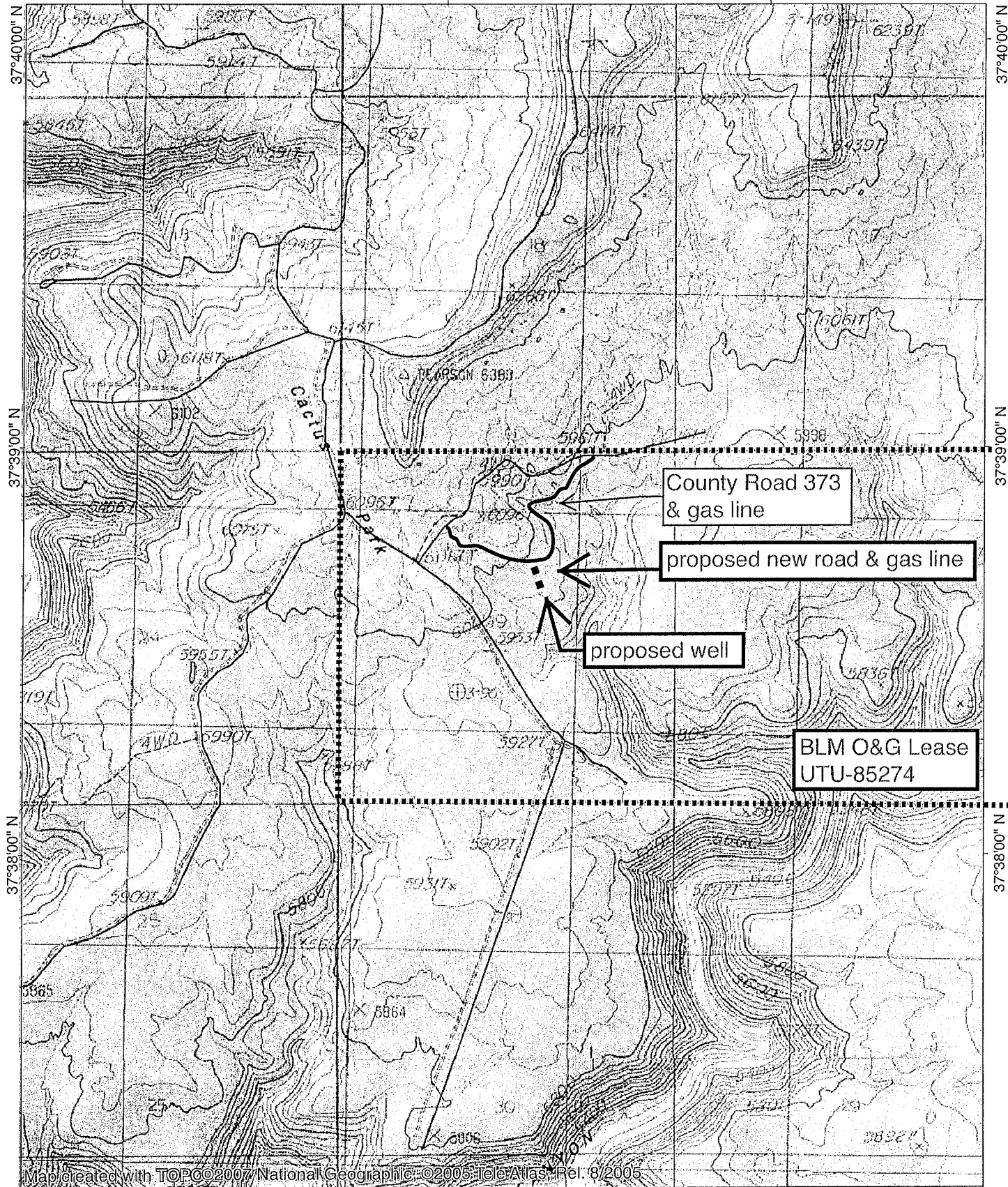
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10.5°  
07/11/10



109°14'00" W

109°13'00" W

WGS84 109°12'00" W

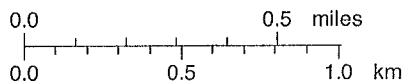


Map created with TOPO!©2007 National Geographic©2005 TeleAtlas Rel. 8/2005

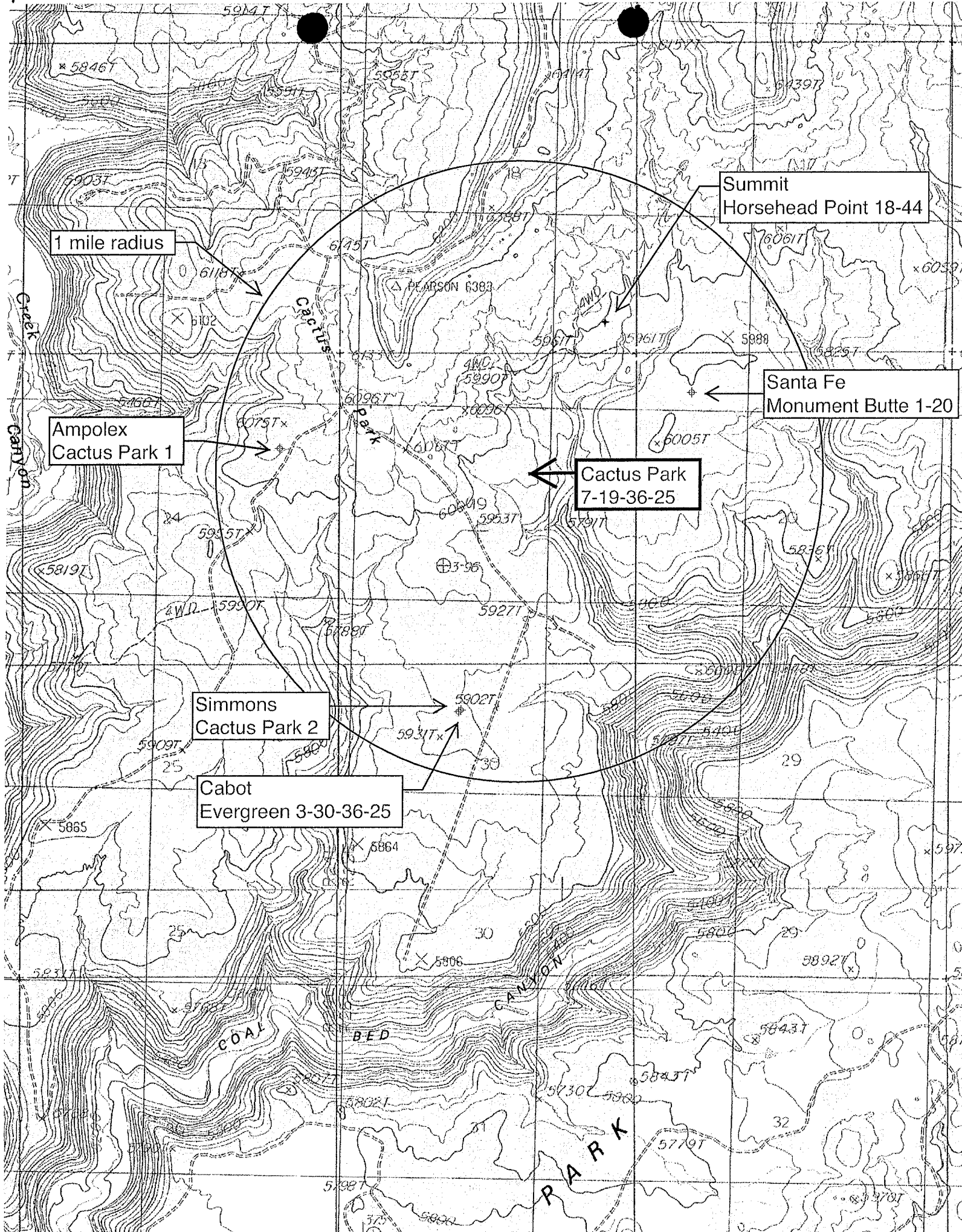
109°14'00" W

109°13'00" W

WGS84 109°12'00" W



TN↑MN  
10.5°  
06/06/10



Summit  
Horsehead Point 18-44

1 mile radius

Ampolex  
Cactus Park 1

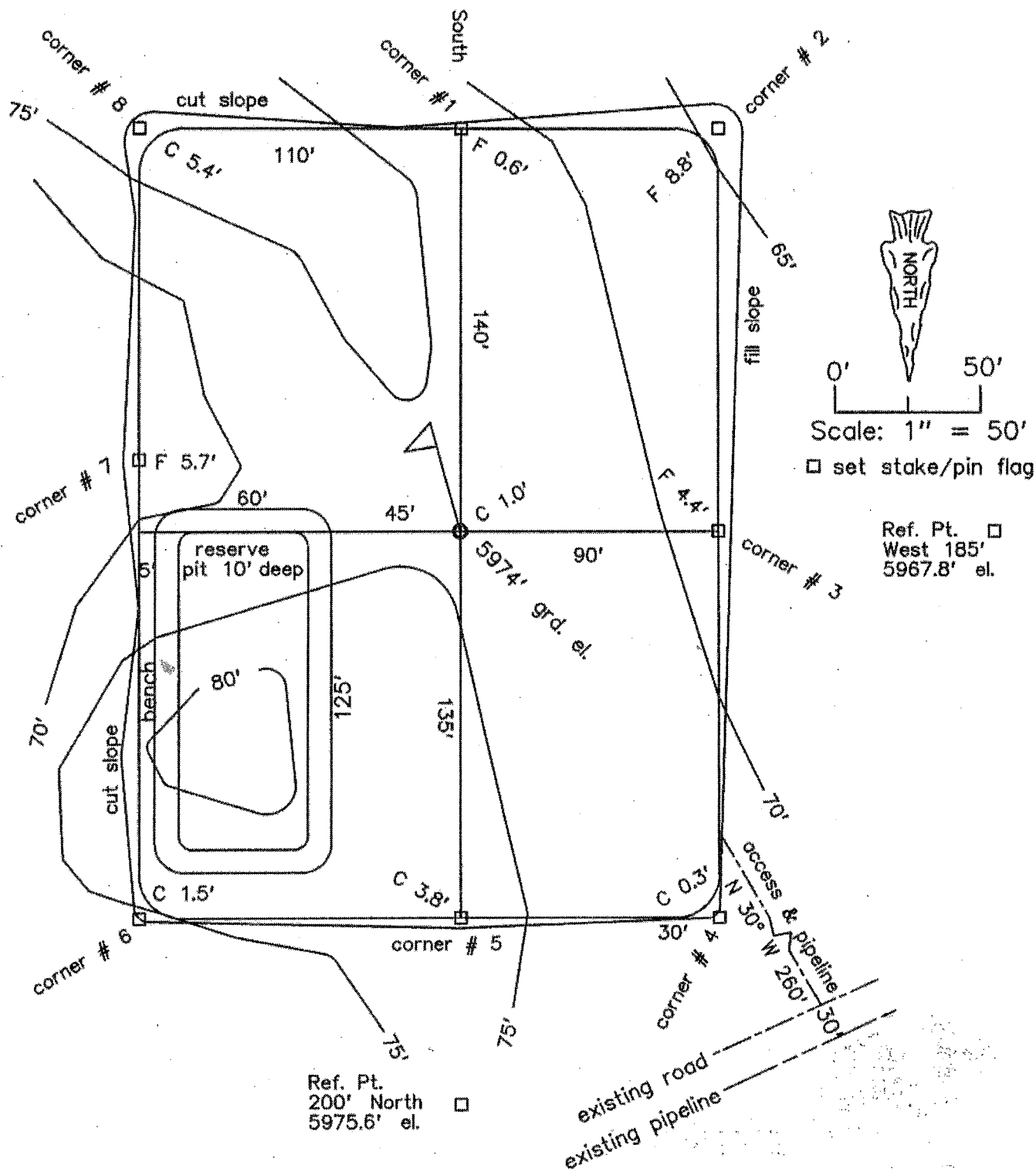
Santa Fe  
Monument Butte 1-20

Cactus Park  
7-19-36-25

Simmons  
Cactus Park 2

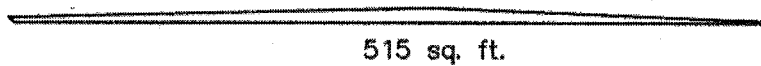
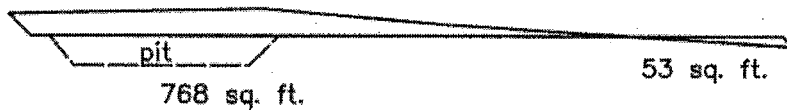
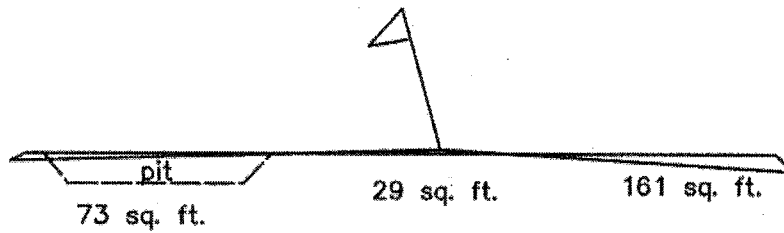
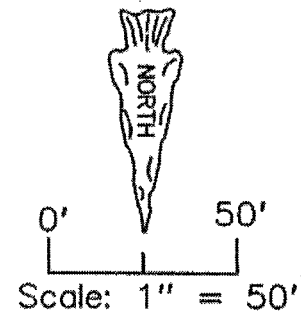
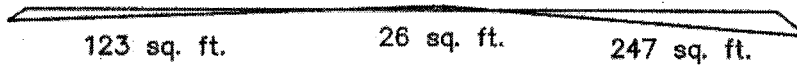
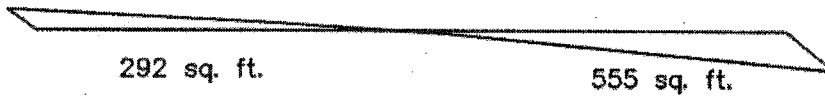
Cabot  
Evergreen 3-30-36-25

Summit Operating, LLC  
Cactus Park 7-19-36-25  
well pad plan view



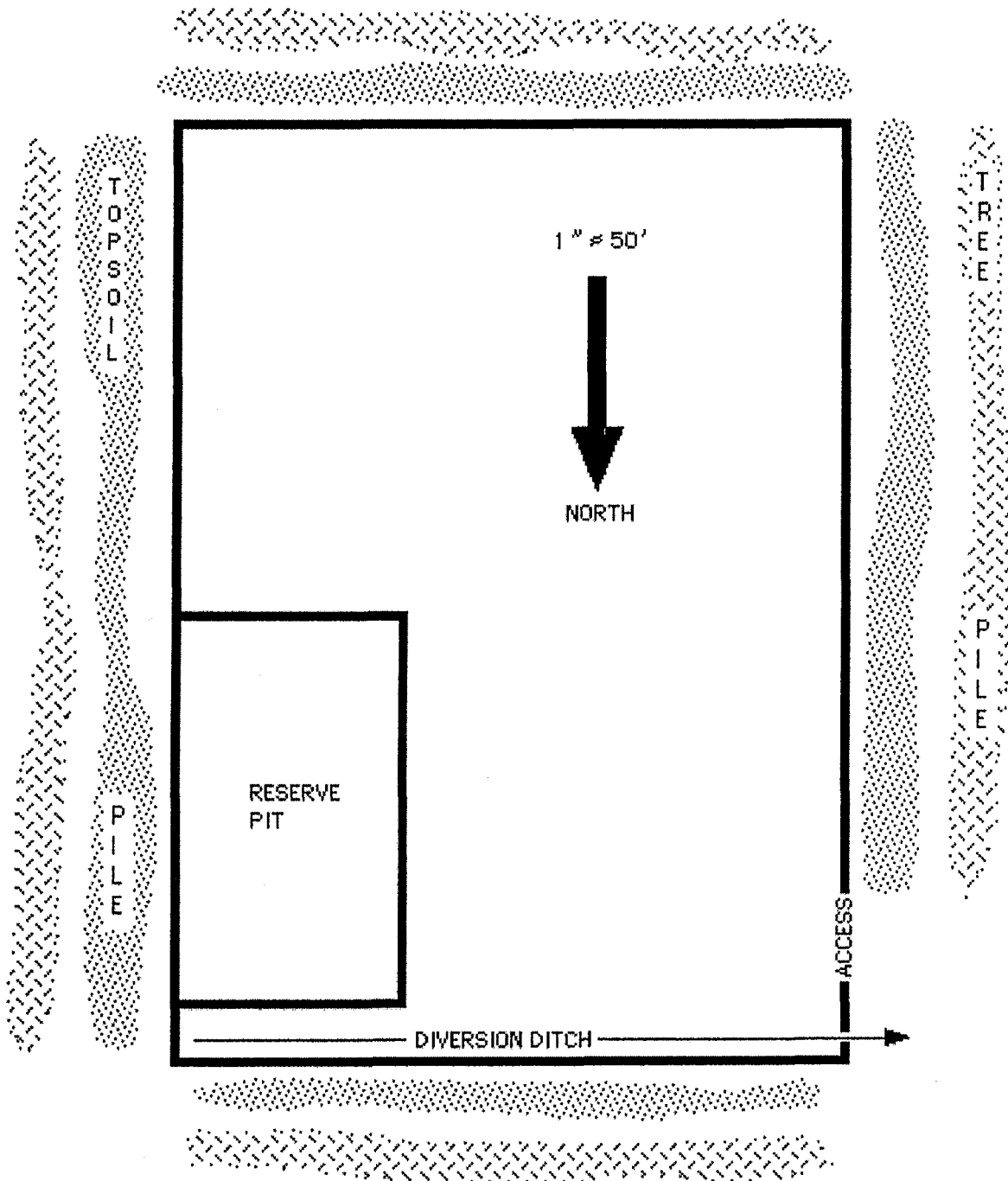
Summit Operating, LLC  
Cactus Park 7-19-36-25  
cross sections

approximate dirt quantities  
pad & above pit  
3141 cubic yards cut  
2226 cubic yards fill

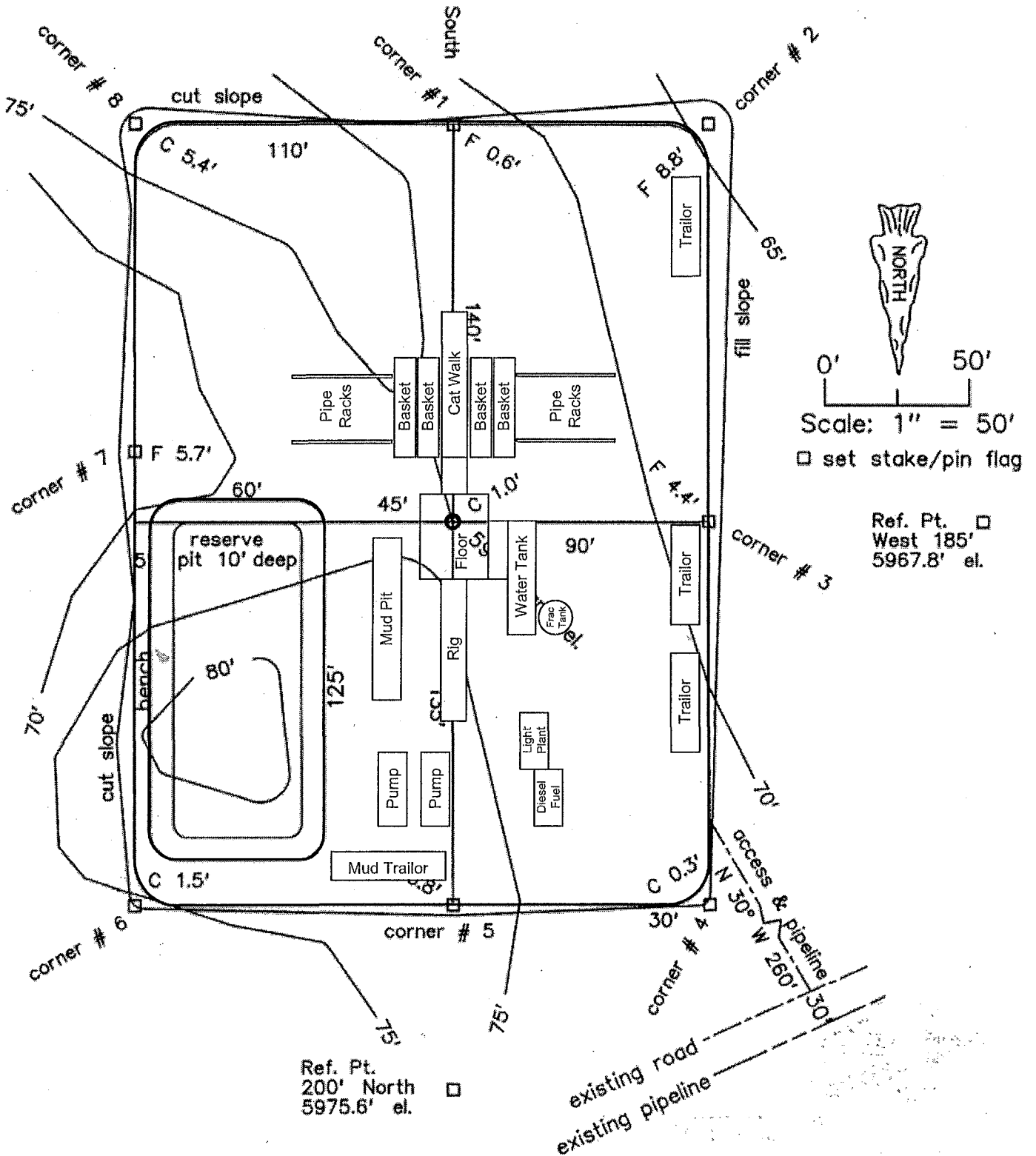


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Cactus Park 7-19-36-25  
1947' FNL & 1890' FEL  
Sec. 19, T. 36 S., R. 25 E.  
San Juan County, Utah

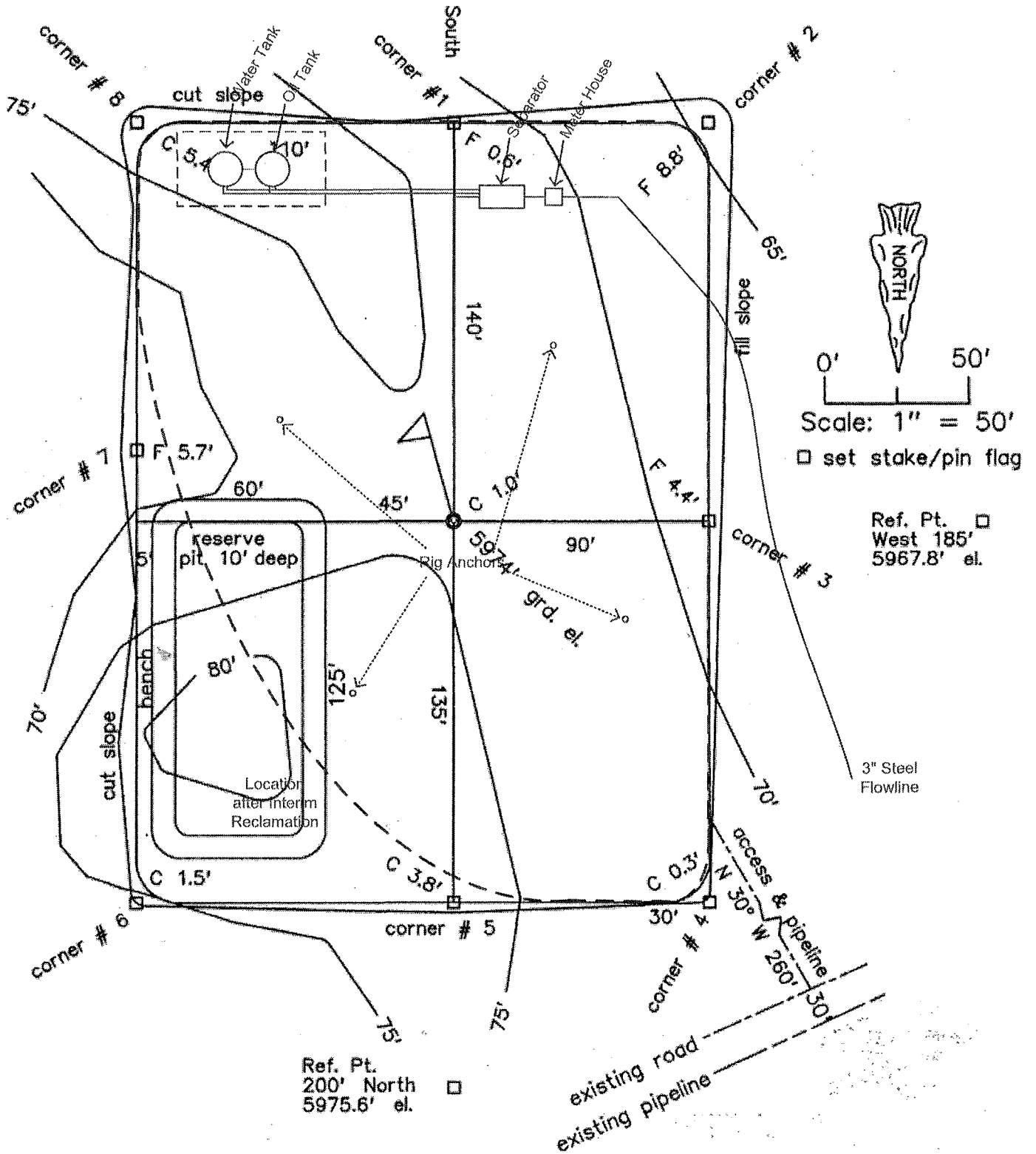
PAGE 24

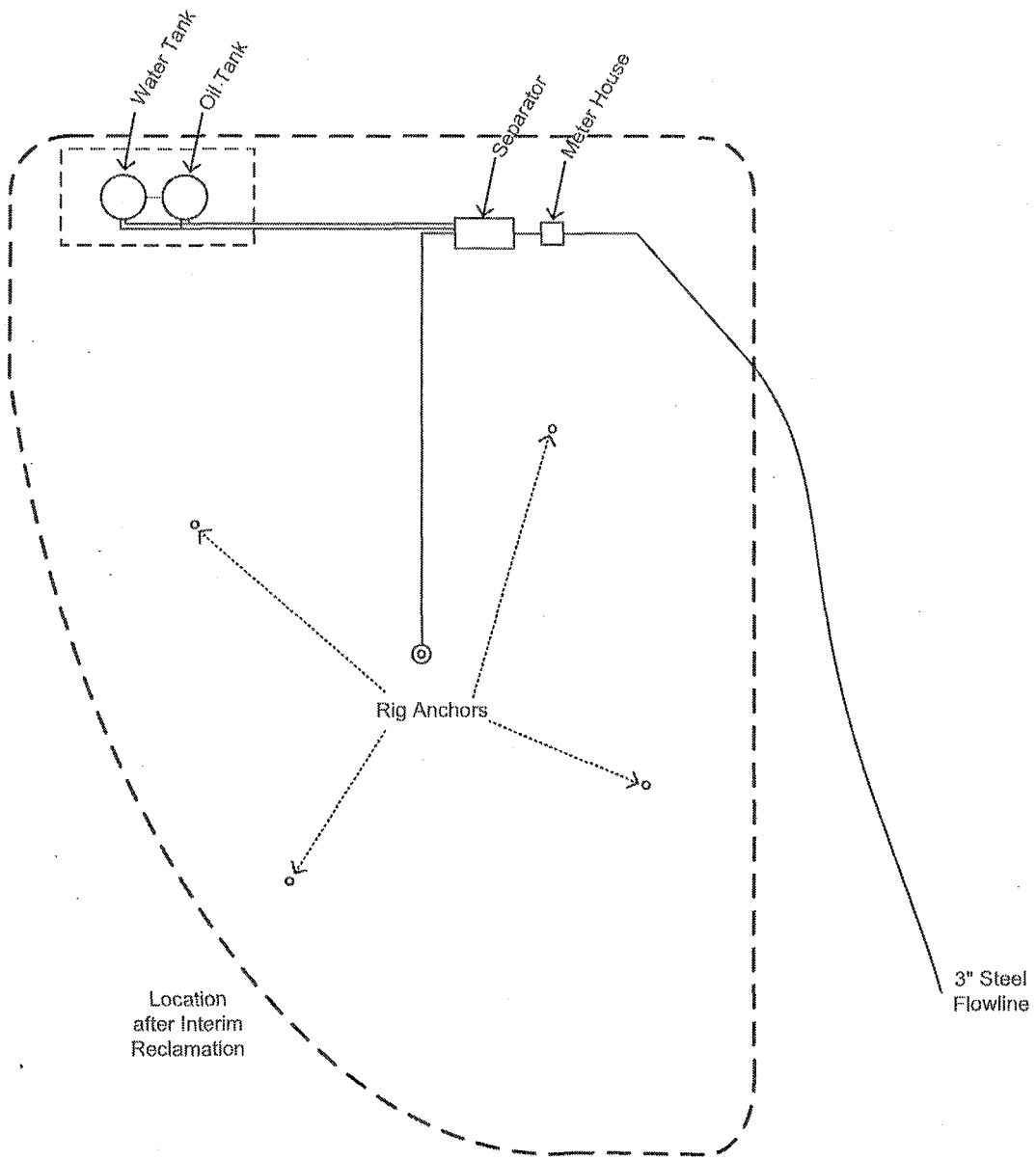


Summit Operating, LLC  
Cactus Park 7-19-36-25  
well pad plan view



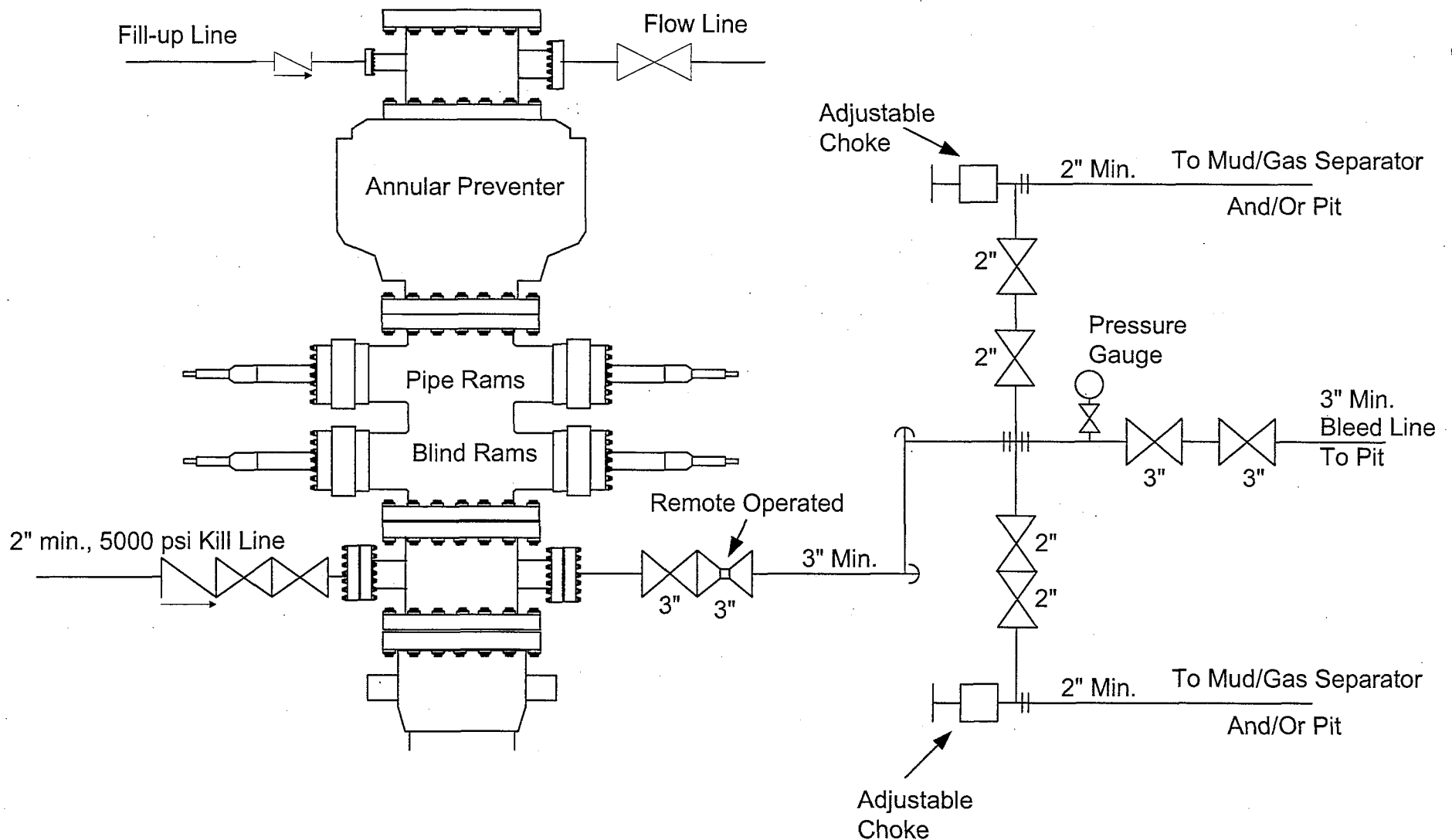
Summit Operating, LLC  
Cactus Park 7-19-36-25  
well pad plan view





# 3k BOPE Schematic

(Not to Scale)



**WORKSHEET**  
**APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 07/15/2010

API NO. ASSIGNED: 43-037-31914

WELL NAME: CACTUS PARK 7-19-36-25

OPERATOR: SUMMIT OPERATING, LLC ( N2315 )

CONTACT: BRIAN WOOD

PHONE NUMBER: 435-940-9001

PROPOSED LOCATION:

SWNE 19 360S 250E

SURFACE: 1947 FNL 1890 FEL

BOTTOM: 1947 FNL 1890 FEL

COUNTY: SAN JUAN

LATITUDE: 37.64458 LONGITUDE: -109.21067

UTM SURF EASTINGS: 657864 NORTHINGS: 4167683

FIELD NAME: WILDCAT ( 1 )

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-085274

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: AKAH

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTB000014 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. 09-777 )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)  
☒ Intent to Commingle (Y/N)

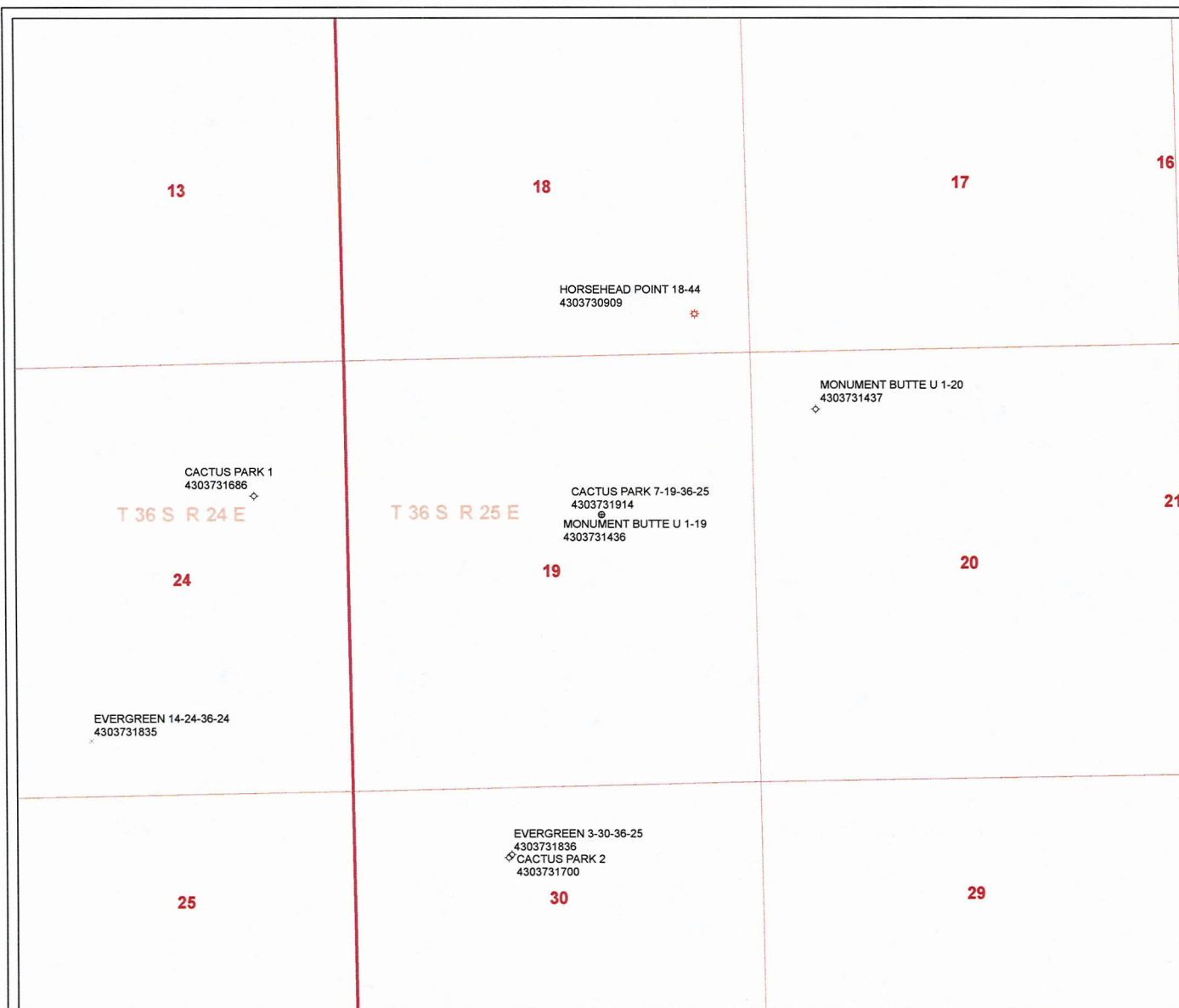
LOCATION AND SITING:

       R649-2-3.  
Unit: \_\_\_\_\_  
☒ R649-3-2. General  
Siting: 460 From Qtr/Qtr & 920' Between Wells  
       R649-3-3. Exception  
       Drilling Unit  
Board Cause No: \_\_\_\_\_  
Eff Date: \_\_\_\_\_  
Siting: \_\_\_\_\_  
       R649-3-11. Directional Drill

COMMENTS: \_\_\_\_\_

STIPULATIONS: \_\_\_\_\_

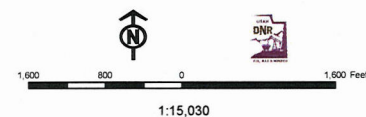
*1- Federal Approval*  
*2- Spacing Stip*



API Number: 4303731914  
 Well Name: CACTUS PARK 7-19-36-25  
 Township 36.0 S Range 25.0 E Section 19  
 Meridian: SLBM  
 Operator: SUMMIT OPERATING, LLC

Map Prepared:  
 Map Produced by Diana Mason

- | Units         | Wells Query                        |
|---------------|------------------------------------|
| STATUS        | STATUS                             |
| ACTIVE        | APD - Approved Permit              |
| EXPLORATORY   | ORL - Spudded (Drilling Commenced) |
| GAS STORAGE   | GSW - Gas Injection                |
| NP PP OIL     | GS - Gas Storage                   |
| NP SECONDARY  | LA - Location Abandoned            |
| PI OIL        | LOC - New Location                 |
| PP GAS        | OPS - Operation Suspended          |
| PP GEOTHERMAL | PA - Plugged Abandoned             |
| PP OIL        | POW - Producing Gas Well           |
| SECONDARY     | RET - Returned APO                 |
| TERMINATED    | SDW - Shut-in Gas Well             |
| Fields        | SDW - Shut-in Oil Well             |
| Sections      | TA - Temp. Abandoned               |
| Township      | TW - Test Well                     |
|               | WDW - Water Disposal               |
|               | WWI - Water Injection Well         |
|               | WSW - Water Supply Well            |





GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

July 19, 2010

Summit Operating, LLC  
1441 West Ute Blvd, Suite 280  
Park City, UT 84098

Subject: Cactus Park 7-19-36-25 Well, 1947' FNL, 1890' FEL, SW NE, Sec. 19, T. 36 South, R. 25 East, San Juan County, Utah

Ladies and Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-037-31914.

Sincerely,

Brad Hill  
Acting Associate Director

BGH/ js  
Enclosures

cc: San Juan County Assessor  
Bureau of Land Management, Moab Office

**Operator:** Summit Operating, LLC  
**Well Name & Number** Cactus Park 7-19-36-25  
**API Number:** 43-037-31914  
**Lease:** UTU-085274

**Location:** SW NE    **Sec.** 19    **T.** 36 South    **R.** 25 East

### **Conditions of Approval**

#### **1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **2. Notification Requirements**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284 (please let a voicemail message if not available)
- OR
- Submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office  
(801) 733-0983 after office hours

#### **3. Reporting Requirements**

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited:

- Entity Action Form (Form 6) – due within 5 days of spudding the well
- Monthly Status Report (Form 9) – due by 5<sup>th</sup> day of the following calendar month
- Requests to Change Plans (Form 9) – due prior to implementation
- Written Notice of Emergency Changes (Form 9) – due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) – due prior to implementation
- Report of Water Encountered (Form 7) – due within 30 days after completion
- Well Completion Report (Form 8) – due within 30 days after completion or plugging

- #### **4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

Page 2  
43-037-31914  
July 19, 2010

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/15/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; display: inline-block; width: 100px; height: 15px; vertical-align: middle;"></span>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  

A one-year extension to the APD is requested to allow the subject well to be drilled during 2011.

**Approved by the**  
**Utah Division of**  
**Oil, Gas and Mining**

**Date:** 08/01/2011

**By:**

<b>NAME (PLEASE PRINT)</b> Ellis Peterson	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Sr Petroleum Engineer
<b>SIGNATURE</b> N/A	<b>DATE</b> 7/28/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274			
		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>1. TYPE OF WELL</b> Gas Well		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25			
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>9. API NUMBER:</b> 43037319140000			
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT			
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>COUNTY:</b> SAN JUAN			
		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 8/15/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input checked="" type="checkbox"/> APD EXTENSION          OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input checked="" type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  A one-year extension to the APD is requested to allow the subject well to be drilled during 2011.					
<b>NAME (PLEASE PRINT)</b> Ellis Peterson		<b>PHONE NUMBER</b> 435 940-9001			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr Petroleum Engineer			
		<b>DATE</b> 7/28/2011			

**RECEIVED** Jul. 28, 2011



## The Utah Division of Oil, Gas, and Mining

- State of Utah  
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

### Request for Permit Extension Validation Well Number 43037319140000

**API:** 43037319140000

**Well Name:** CACTUS PARK 7-19-36-25

**Location:** 1947 FNL 1890 FEL QTR SWNE SEC 19 TWP 360S RNG 250E MER S

**Company Permit Issued to:** SUMMIT OPERATING, LLC

**Date Original Permit Issued:** 7/19/2010

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? ☐ Yes ☒ No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? ☐ Yes ☒ No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? ☐ Yes ☒ No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ☐ Yes ☒ No
- Has the approved source of water for drilling changed? ☐ Yes ☒ No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? ☐ Yes ☒ No
- Is bonding still in place, which covers this proposed well? ☒ Yes ☐ No

**Signature:** Ellis Peterson

**Date:** 7/28/2011

**Title:** Sr Petroleum Engineer **Representing:** SUMMIT OPERATING, LLC

**RECEIVED** Jul. 28, 2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25			
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000			
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		<b>COUNTY:</b> SAN JUAN			
<b>STATE:</b> UTAH					
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 9/27/2011  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input checked="" type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <span style="border: 1px solid black; padding: 0 5px;">Request for confidential</span> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <span style="border: 1px solid black; padding: 0 5px;">Request for confidential</span>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b>  Summit Operating, LLC requests that all information on this well be kept confidential for one year.					
<b>Approved by the Utah Division of Oil, Gas and Mining</b>  <b>Date:</b> 09/29/2011 <b>By:</b>					
<b>NAME (PLEASE PRINT)</b> Ellis Peterson		<b>PHONE NUMBER</b> 435 940-9001			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr Petroleum Engineer			
<b>DATE</b> 9/27/2011					

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

RECEIVED

OCT 17 2011

ENTITY ACTION FORM

DIV. OF OIL, GAS & MINING

Operator: Summit Operating, LLC  
Address: 1245 Brickyard Rd., Ste. 210  
city Salt Lake City  
state UT zip 84106

Operator Account Number: N 2315

Phone Number: (435) 940-9001

Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303731914	Cactus Park 7-19-36-25	SWNE	19	36S	25E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
A	99999	18277	10/13/2011	10/20/11		
Comments: Spud AKAH						

CONFIDENTIAL

Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

Well 3

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Crystal Hammer

Name (Please Print)



Signature

Geo Tech

10/13/2011

Title

Date

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:			
<input checked="" type="checkbox"/> <b>SPUD REPORT</b> Date of Spud: 10/13/2011			
<input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.  
  
 Spudded Cactus Park 7-19-36-25 well on October 13th, 2011.

**Accepted by the**  
**Utah Division of**  
**Oil, Gas and Mining**  
**FOR RECORD ONLY**

<b>NAME (PLEASE PRINT)</b> Crystal Hammer	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Geo Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 10/19/2011	

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
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<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
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<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:  <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:  <input type="checkbox"/> SPUD REPORT Date of Spud:  <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/2/2011	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Summit Operating, LLC hereby informs of the Monthly Status Report for this well.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Crystal Hammer	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Geo Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/2/2011	

**Well Activity Summary Report**

Well: Cactus Park 7-19-36-25  
 Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
 Field: Wildcat  
 Purpose: Drill and Complete.

---

<u>Date</u>	<u>Activity</u>
9/9-16/2011	Crowley Construction constructed access road and drilling pad.
10/6/2011	3-D Conductor mobilized drilling rig to location. Drilled 24" hole to 21' and hit hard rock. Continued slow drilling to 31' and shut down for night.
10/7/2011	Heavy rain overnight left clay road surfaces impassible for trucks. 3-D Conductor drillers and Mo-Te anchor service could not access location. Activities had to be postponed. Crowley Construction retrieved truck driver sub-contracted to 3-D Conductor by ATV. American Tubulars delivered 88 joints of 9-5/8" surface casing to Dawn Trucking yard in Dove Creek.
10/8/2011	Dawn Trucking was able to access location and started hauling water.
10/9/2011	Dawn Trucking continued hauling water to reserve pit.
10/10/2011	3-D Conductor finished drilling 24" hole to 40' GL and set 16" conductor in hole. Dug out and set a 4' x 6' cellar ring. Moved conductor rig to Cactus Park 16-12-36-24 location.
10/11/2011	3-D Conductor cemented a 16" conductor from 0' to 40' GL with ready-mix concrete. Dawn Trucking started loading out L&W 1 drilling rig and moving it to Cactus Park 7-19-36-25 location.
10/12/2011	Notified Jeff Brown of BLM at 13:15 hours of intent to spud. Finished moving drilling rig to location and continued rigging up on well. Mo-Te set rig anchors.
10/13/2011	Continued rigging up L&W #1 drilling rig.
10/14/2011	Finished rigging up drilling rig. Welded 16" riser and 10" flowline off conductor pipe. Drilled mouse and rat holes. Spud Cactus Park 7-19-36-25 at 14:00 hours on 10/13/2011. Drilled 12.25" surface hole 56' to 379'. Electric motor bracket on shale shaker broke. Circulating at half rate and working pipe while waiting 7.5 hours for electrician.
10/15/2011	Wait total of 7.5 hours for electrician to replace shaker motor. Drilled 12.25" hole from 379' to 495'. Got stuck at 474' while making connection. Worked pipe stacking out and pulling 40-80K over string weight. No movement but full circulation returns. Fishing tools on location after 8 hours. Pick up surface jars and beat down to work pipe free. Rotate, reciprocate and circulate while working pipe up hole. Mud is 9.1 ppg with 38 viscosity.
10/16/2011	Washed and reamed hole and worked pipe while increasing mud viscosity. Drilled 12.25" hole from 495' to 965'. Deviation surveys at 558' and 660' were 1 degree. Mud is 9.2 ppg with 56 viscosity.
10/17/2011	Drilled from 12.25" hole from 965' to 1355'. Rate slowed to 10 FPH at 1243'. Mud is 9.3 ppg with 38 viscosity.
10/18/2011	Drilled 12.25" hole from 1355' to 1645'. Deviation survey at 1349' was 2.5 degrees. Mud is 9.2 ppg with 49 viscosity.
10/19/2011	Drilled 12.25" hole from 1645' to 1755'. Deviation survey at 1665' was 4.0 degrees. Mud is 9.2 ppg with 47 viscosity.
10/20/2011	Drilled 12.25" hole from 1755' to 1774'. Received verbal permission from BLM to set surface casing at 1774'. Pulled to check bit with tight hole at 700' and 370'. Tripped and conditioned hole for surface casing. Deviation survey at 1760' was 2.75 degrees and re-check survey at 1665' was 3.75 degrees. Ran 9-5/8", 36#, J-55 surface casing to 1768'. Cemented surface casing with 442 sks Premium Lite lead (12.30 ppg, 2.10 yld) and 150 sks Type III tail (14.20 ppg, 1.47 yld). Full returns while cementing with 103 Bbls of cement to surface. Bumped plug at 05:17 hours (10/20/2011) to 500 psi and float held. Mud is 9.2 ppg with 48 viscosity.

**Well Activity Summary Report**

Well: Cactus Park 7-19-36-25  
 Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
 Field: Wildcat  
 Purpose: Drill and Complete.

---

10/21/2011 WOC. Cut off conductor pipe and 9-5/8" casing. Weld on 11"3M casing head and test seals. NU BOPE and tested. Tested upper and lower Kelly valves. Tested 9-5/8" casing and casing head. PU PDC bit and mud motor. Surface tested motor and TIH.

10/22/2011 TIH with 8-3/4" bit, 6.5" mud motor, and 20 6.5" DC. Tag cement at 1722' (float collar at 1724' KB). Drilled cement float collar and 9-5/8" casing shoe. Drilled new 8.75" hole from 1774' to 2247'. Deviation survey at 1912' was 2.25 degrees. Mud is 9.1 ppg with 40 viscosity and water loss of 8.0.

10/23/2011 Drilled 8.75" hole from 2247' to 2751'. Deviation survey at 2230' was 1.50 degrees. Mud is 9.0 ppg with 38 viscosity and water loss of 7.2. Ran BOP drill.

10/24/2011 Drilled 8.75" hole from 2751' to 3606'. Deviation surveys at 2737' and 3149' were 0.75 degrees. Mud is 9.1 ppg with 34 viscosity and water loss of 8.0.

10/25/2011 Drilled 8.75" hole from 3606' to 4583'. Deviation survey at 3625' was 1.75 degrees and surveys at 4037' and 4417' were 0.75 degrees. Mud is 9.2 ppg with 34 viscosity and water loss of 10. Shows reported at 4424'- 4432' (65 units from 26 BGG), 4486'- 4490' (115 units from 28 BGG), and 4587'- 4615' (1849 units from 28 BGG).

10/26/2011 Drilled 8.75" hole from 4583' to 5184'. Deviation survey at 4829' was 1.0 degrees. Mud is 9.1 ppg with 36 viscosity and water loss of 9.6. A hole developed in standpipe on rig. Pulled bit up in surface casing and welded stand pipe. Tripped in and washed 6' to bottom at 5184'. Circulated and conditioned mud in preparation for resuming drilling.

10/27/2011 Drilled 8.75" hole from 5184' to 5688'. Deviation survey at 5241' was 0.75 degrees and survey at 5618' was 1.0 degrees. Mud is 9.1 ppg with 43 viscosity and water loss of 10.4. Top of Hovenweep Shale at 5685'. Circulated and conditioned mud. Short tripped to 4737' and had 1' of fill on bottom. Washed to bottom and continued circulating and conditioning mud for coring. TOOH for core barrel.

10/28/2011 Finished TOOH with bit and motor BHA. PU and TIH with 8-3/4" x 4" coring bit and core barrel to 3000'. Attempted to break circulation and rig blocks failed. Pulled into 9-5/8" casing. Changed out rig blocks. Mud is 9.1 ppg with 42 viscosity and water loss of 10.4.

10/29/2011 Finished restringing blocks. Circulated at 9-5/8" casing shoe. TIH with coring assembly, broke circulation at 3500', and finished TIH. Circulate and conditioned mud at 5688'. Cut 62' of 4" core from 5688' to 5750'. TOOH and LD core and tools. Mud is 9.1 ppg with 42 viscosity and water loss of 10.4.

10/30/2011 TIH with an 8-3/4" rock bit BHA, break circulation at 3300', and continued TIH to 5750'. Circulated and conditioned mud. Drilled 8-3/4" hole from 5750' to 5790'. Circulated samples up, conditioned mud, and TOOH. PU and TIH with 8-3/4" x 4" coring bit and core barrel. Circulate and conditioned mud at 5790'. Cut core from 5790' to 5798'. Mud is 8.9 ppg with 42 viscosity and water loss of 20.

10/31/2011 Continued coring from 5798' to 5821'. Cut 31' total of 4" core. TOOH with core and tools. Recovered 28' of core. TIH with 8-3/4" rock bit and drill collars. Drilled 5821' to revised TD of 5952'. Circulated samples and conditioned mud. Mud is 9.1 ppg with 43 viscosity and water loss of 20. Short tripped 15 stands.

11/01/2011 Finished short trip. Circulated and conditioned mud to bring water loss down before logging. Directional survey at 5912' was 1.25 degrees. TOOH with bit. RU Weatherford wireline unit and began logging operations. Mud is 9.2 ppg with 56 viscosity and water loss of 8.8.

## Well Activity Summary Report

Well: Cactus Park 7-19-36-25  
Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
Field: Wildcat  
Purpose: Drill and Complete.

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11/02/2011 Weatherford ran open-hole logs. Cut and advanced 120' of drilling line. TIH with bit, broke circulation at 3000', and continued to TD. Circulated and conditioned mud. Mud is 9.1 ppg with 66 viscosity and water loss of 8.4. TOOHL laying down drill pipe and drill collars. Changed BOP rams to 5-1/2" and rigged up casing crew. Ran 141 joints of 5-1/2", 17#, J-55, LT&C casing to 5946' KB. Circulated through casing and rigged down casing crew. Rigged up cementing equipment and cemented production casing.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210, Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start:	<input type="checkbox"/> <b>ACIDIZE</b>	
<input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:	<input type="checkbox"/> <b>ALTER CASING</b>	
<input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:	<input type="checkbox"/> <b>CASING REPAIR</b>	
<input checked="" type="checkbox"/> <b>DRILLING REPORT</b> Report Date: 11/2/2011	<input type="checkbox"/> <b>CHANGE TO PREVIOUS PLANS</b>	
	<input type="checkbox"/> <b>CHANGE TUBING</b>	
	<input type="checkbox"/> <b>CHANGE WELL STATUS</b>	
	<input type="checkbox"/> <b>COMMINGLE PRODUCING FORMATIONS</b>	
	<input type="checkbox"/> <b>DEEPEN</b>	
	<input type="checkbox"/> <b>FRACTURE TREAT</b>	
	<input type="checkbox"/> <b>OPERATOR CHANGE</b>	
	<input type="checkbox"/> <b>PLUG AND ABANDON</b>	
	<input type="checkbox"/> <b>PRODUCTION START OR RESUME</b>	
	<input type="checkbox"/> <b>RECLAMATION OF WELL SITE</b>	
	<input type="checkbox"/> <b>REPERFORATE CURRENT FORMATION</b>	
	<input type="checkbox"/> <b>SIDETRACK TO REPAIR WELL</b>	
	<input type="checkbox"/> <b>TUBING REPAIR</b>	
	<input type="checkbox"/> <b>VENT OR FLARE</b>	
	<input type="checkbox"/> <b>WATER SHUTOFF</b>	
	<input type="checkbox"/> <b>SI TA STATUS EXTENSION</b>	
	<input type="checkbox"/> <b>WILDCAT WELL DETERMINATION</b>	
	<input type="checkbox"/> <b>OTHER</b>	
	OTHER: <input style="width: 100px;" type="text"/>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Summit Operating, LLC hereby informs of the Monthly Status Report for this well.		
<b>Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Crystal Hammer	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Geo Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 11/2/2011	

**Well Activity Summary Report**

Well: Cactus Park 7-19-36-25  
 Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
 Field: Wildcat  
 Purpose: Drill and Complete.

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<u>Date</u>	<u>Activity</u>
9/9-16/2011	Crowley Construction constructed access road and drilling pad.
10/6/2011	3-D Conductor mobilized drilling rig to location. Drilled 24" hole to 21' and hit hard rock. Continued slow drilling to 31' and shut down for night.
10/7/2011	Heavy rain overnight left clay road surfaces impassible for trucks. 3-D Conductor drillers and Mo-Te anchor service could not access location. Activities had to be postponed. Crowley Construction retrieved truck driver sub-contracted to 3-D Conductor by ATV. American Tubulars delivered 88 joints of 9-5/8" surface casing to Dawn Trucking yard in Dove Creek.
10/8/2011	Dawn Trucking was able to access location and started hauling water.
10/9/2011	Dawn Trucking continued hauling water to reserve pit.
10/10/2011	3-D Conductor finished drilling 24" hole to 40' GL and set 16" conductor in hole. Dug out and set a 4' x 6' cellar ring. Moved conductor rig to Cactus Park 16-12-36-24 location.
10/11/2011	3-D Conductor cemented a 16" conductor from 0' to 40' GL with ready-mix concrete. Dawn Trucking started loading out L&W 1 drilling rig and moving it to Cactus Park 7-19-36-25 location.
10/12/2011	Notified Jeff Brown of BLM at 13:15 hours of intent to spud. Finished moving drilling rig to location and continued rigging up on well. Mo-Te set rig anchors.
10/13/2011	Continued rigging up L&W #1 drilling rig.
10/14/2011	Finished rigging up drilling rig. Welded 16" riser and 10" flowline off conductor pipe. Drilled mouse and rat holes. Spud Cactus Park 7-19-36-25 at 14:00 hours on 10/13/2011. Drilled 12.25" surface hole 56' to 379'. Electric motor bracket on shale shaker broke. Circulating at half rate and working pipe while waiting 7.5 hours for electrician.
10/15/2011	Wait total of 7.5 hours for electrician to replace shaker motor. Drilled 12.25" hole from 379' to 495'. Got stuck at 474' while making connection. Worked pipe stacking out and pulling 40-80K over string weight. No movement but full circulation returns. Fishing tools on location after 8 hours. Pick up surface jars and beat down to work pipe free. Rotate, reciprocate and circulate while working pipe up hole. Mud is 9.1 ppg with 38 viscosity.
10/16/2011	Washed and reamed hole and worked pipe while increasing mud viscosity. Drilled 12.25" hole from 495' to 965'. Deviation surveys at 558' and 660' were 1 degree. Mud is 9.2 ppg with 56 viscosity.
10/17/2011	Drilled from 12.25" hole from 965' to 1355'. Rate slowed to 10 FPH at 1243'. Mud is 9.3 ppg with 38 viscosity.
10/18/2011	Drilled 12.25" hole from 1355' to 1645'. Deviation survey at 1349' was 2.5 degrees. Mud is 9.2 ppg with 49 viscosity.
10/19/2011	Drilled 12.25" hole from 1645' to 1755'. Deviation survey at 1665' was 4.0 degrees. Mud is 9.2 ppg with 47 viscosity.
10/20/2011	Drilled 12.25" hole from 1755' to 1774'. Received verbal permission from BLM to set surface casing at 1774'. Pulled to check bit with tight hole at 700' and 370'. Tripped and conditioned hole for surface casing. Deviation survey at 1760' was 2.75 degrees and re-check survey at 1665' was 3.75 degrees. Ran 9-5/8", 36#, J-55 surface casing to 1768'. Cemented surface casing with 442 sks Premium Lite lead (12.30 ppg, 2.10 yld) and 150 sks Type III tail (14.20 ppg, 1.47 yld). Full returns while cementing with 103 Bbls of cement to surface. Bumped plug at 05:17 hours (10/20/2011) to 500 psi and float held. Mud is 9.2 ppg with 48 viscosity.

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Well: Cactus Park 7-19-36-25  
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10/21/2011 WOC. Cut off conductor pipe and 9-5/8" casing. Weld on 11"3M casing head and test seals. NU BOPE and tested. Tested upper and lower Kelly valves. Tested 9-5/8" casing and casing head. PU PDC bit and mud motor. Surface tested motor and TIH.

10/22/2011 TIH with 8-3/4" bit, 6.5" mud motor, and 20 6.5" DC. Tag cement at 1722' (float collar at 1724' KB). Drilled cement float collar and 9-5/8" casing shoe. Drilled new 8.75" hole from 1774' to 2247'. Deviation survey at 1912' was 2.25 degrees. Mud is 9.1 ppg with 40 viscosity and water loss of 8.0.

10/23/2011 Drilled 8.75" hole from 2247' to 2751'. Deviation survey at 2230' was 1.50 degrees. Mud is 9.0 ppg with 38 viscosity and water loss of 7.2. Ran BOP drill.

10/24/2011 Drilled 8.75" hole from 2751' to 3606'. Deviation surveys at 2737' and 3149' were 0.75 degrees. Mud is 9.1 ppg with 34 viscosity and water loss of 8.0.

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10/26/2011 Drilled 8.75" hole from 4583' to 5184'. Deviation survey at 4829' was 1.0 degrees. Mud is 9.1 ppg with 36 viscosity and water loss of 9.6. A hole developed in standpipe on rig. Pulled bit up in surface casing and welded stand pipe. Tripped in and washed 6' to bottom at 5184'. Circulated and conditioned mud in preparation for resuming drilling.

10/27/2011 Drilled 8.75" hole from 5184' to 5688'. Deviation survey at 5241' was 0.75 degrees and survey at 5618' was 1.0 degrees. Mud is 9.1 ppg with 43 viscosity and water loss of 10.4. Top of Hovenweep Shale at 5685'. Circulated and conditioned mud. Short tripped to 4737' and had 1' of fill on bottom. Washed to bottom and continued circulating and conditioning mud for coring. TOOH for core barrel.

10/28/2011 Finished TOOH with bit and motor BHA. PU and TIH with 8-3/4" x 4" coring bit and core barrel to 3000'. Attempted to break circulation and rig blocks failed. Pulled into 9-5/8" casing. Changed out rig blocks. Mud is 9.1 ppg with 42 viscosity and water loss of 10.4.

10/29/2011 Finished restringing blocks. Circulated at 9-5/8" casing shoe. TIH with coring assembly, broke circulation at 3500', and finished TIH. Circulate and conditioned mud at 5688'. Cut 62' of 4" core from 5688' to 5750'. TOOH and LD core and tools. Mud is 9.1 ppg with 42 viscosity and water loss of 10.4.

10/30/2011 TIH with an 8-3/4" rock bit BHA, break circulation at 3300', and continued TIH to 5750'. Circulated and conditioned mud. Drilled 8-3/4" hole from 5750' to 5790'. Circulated samples up, conditioned mud, and TOOH. PU and TIH with 8-3/4" x 4" coring bit and core barrel. Circulate and conditioned mud at 5790'. Cut core from 5790' to 5798'. Mud is 8.9 ppg with 42 viscosity and water loss of 20.

10/31/2011 Continued coring from 5798' to 5821'. Cut 31' total of 4" core. TOOH with core and tools. Recovered 28' of core. TIH with 8-3/4" rock bit and drill collars. Drilled 5821' to revised TD of 5952'. Circulated samples and conditioned mud. Mud is 9.1 ppg with 43 viscosity and water loss of 20. Short tripped 15 stands.

11/01/2011 Finished short trip. Circulated and conditioned mud to bring water loss down before logging. Directional survey at 5912' was 1.25 degrees. TOOH with bit. RU Weatherford wireline unit and began logging operations. Mud is 9.2 ppg with 56 viscosity and water loss of 8.8.

## Well Activity Summary Report

Well: Cactus Park 7-19-36-25  
Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
Field: Wildcat  
Purpose: Drill and Complete.

---

11/02/2011 Weatherford ran open-hole logs. Cut and advanced 120' of drilling line. TIH with bit, broke circulation at 3000', and continued to TD. Circulated and conditioned mud. Mud is 9.1 ppg with 66 viscosity and water loss of 8.4. TOOH laying down drill pipe and drill collars. Changed BOP rams to 5-1/2" and rigged up casing crew. Ran 141 joints of 5-1/2", 17#, J-55, LT&C casing to 5946' KB. Circulated through casing and rigged down casing crew. Rigged up cementing equipment and cemented production casing.

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210 , Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT		<b>COUNTY:</b> SAN JUAN
<b>STATE:</b> UTAH		
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 12/5/2011	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	
<input type="checkbox"/> DRILLING REPORT Report Date:	OTHER: <span style="border: 1px solid black; padding: 2px;">Monthly Status Report</span>	
<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> Summit Operating, LLC hereby informs of the Monthly Status Report for this well.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY</b>		
<b>NAME (PLEASE PRINT)</b> Crystal Hammer	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Geo Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 12/5/2011	

**Well Activity Summary Report**

Well: Cactus Park 7-19-36-25  
 Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
 Field: Wildcat  
 Purpose: Drill and Complete.

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11/02/2011 Weatherford ran open-hole logs. Cut and advanced 120' of drilling line. TIH with bit, broke circulation at 3000', and continued to TD. Circulated and conditioned mud. Mud is 9.1 ppg with 66 viscosity and water loss of 8.4. TOOHH laying down drill pipe and drill collars. Changed BOP rams to 5-1/2" and rigged up casing crew. Ran 141 joints of 5-1/2", 17#, J-55, LT&C casing to 5946' KB. Circulated through casing and rigged down casing crew. Rigged up cementing equipment and cemented production casing.

11/03/2011 Baker Pressure Pumping finished cementing 5-1/2" production casing with lead of 500 sks Premium Lite (12.3 ppg, 2.08 yld) and tail of 575 sks 50:50:2 Type III:Poz (13.5 ppg, 1.43 yld). Displaced cement with 137 Bbls treated water. Bumped plug with 1800 psi at 0710 hrs on 11/2/2011 and floats held. RD cementing crew and ND BOP. Set slips on 5-1/2" casing in full tension (87k). Cut off 5-1/2" casing (cut-off length 18.43'). Dumped and cleaned pits. RD and released L&W 1 drilling rig at 2400 hrs on 11/2/2011. Will begin moving rig to Cactus Park 16-12-36-24 at daylight.

11/04/2011 Moving L&W 1 drilling rig off location.

11/05-09/2011 Waiting on completion.

11/10/2011 RU Weatherford Wireline. Ran a Sector Cement Bond Log from PBTD of 5866' to 343'. Top of cement is approximately 590' and the log indicates excellent isolation of planned completion interval. RD Weatherford Wireline. Nipped up wellhead and connected Cameron pressure test unit. Topped off casing with water and successfully pressure tested the 5-1/2" production casing to 3000 psi for 10 minutes.

11/11-14/2011 Waiting on completion.

11/15/2011 RU Red Rock Well Service completion rig. PU and RIH with a 4-3/4" bit and 5-1/2" casing scraper on new 2-3/8", 4.7#, J-55, EUE, 8rd tubing to 4824' KB. Shut down for night.

11/16/2011 Pumped 420 gallons of 18% HCl acid containing corrosion inhibitor, surfactant, and iron control agent down tubing with returns up casing at approximately 0.75 BPM. Displaced the acid out of the casing with 20 Bbls of water. Mixed approximately 1 gallon biocide and 0.5 gallon oxygen scavenger in remaining 110 Bbls of water. Mixed 4 gallons KCl substitute (for 4% KCl equivalent) and 4 gallons surfactant in 40 Bbls of the water and pumped the 40 Bbls down the casing to displace acid out tubing. Pumped another 60 Bbls of water down casing. Laid down 8 joints of tubing and POOH with bit, casing scraper, and tubing.

11/17/2011 RIH with 3-3/8" hollow perforating carriers loaded 4 SPF with GeoDynamics Connex charges on 90° phasing to shoot 16' with 60 holes. Perforating guns were run with a 3-1/8" Owen AutoVent sub, a 8' 2-3/8" tubing sub, 1 joint of 2-3/8" tubing, a 2-3/8" mechanical release sub with 1.781" latch, 1 joint of 2-3/8" tubing, a 2-3/8" X-nipple with 1.875" profile, 1 joint of 2-3/8" tubing, a 5-1/2" x 2-3/8" tubing anchor, 1 joint of 2-3/8" tubing, a 2-3/8" tubing sub with RA locator collar, and 141 joints of 2-3/8", 4.7#, J-55, EUE, 8rd tubing. Ran tubing to approximate perforating depth. RU wireline and ran a GR-CCL correlation to determine necessary depth correction. Picked up a 6' 2-3/8" tubing sub, set tubing anchor catcher at 4460', and landed tubing in neutral. Ran a GR-CCL correlation to verify perforating guns are on depth to perforate the Honaker Trail at 4570'-4586' KB open-hole log depths. RD wireline. NU wellhead and installed a secure blow-down line to the casing.

11/18/2011 Pressured surface casing to 1000 psi and shut valve to trap the pressure. Pumped 120 gallons of 15% HCl acid with additives. RU Nitrogen pumper and started pressuring tubing with Nitrogen pumping 1100 SCF/Min. Perforating guns detonated at approximately 4390 psi with 33,500 SCF pumped. Tubing pressure rapidly dropped to about 1900 psi. Increased Nitrogen injection rate to 2250 SCF/Min and continued injecting 30,500 SCF at 1900 psi. Opened casing and unloaded water while injecting another 29,000 SCF at 2250 SCF/Min with final injection pressure of 1250

**Well Activity Summary Report**

Well: Cactus Park 7-19-36-25  
 Location: SW-NE, Section 19, Township 36 South, Range 25 East, San Juan County, Utah  
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psi. Shut down Nitrogen injection and continued flowing water turning to Nitrogen from casing until flow appeared minimal. Closed casing with shut-in pressure of approximately 100 psi. Opened tubing to flat tank with low gas and water flow. Water production decreased and gas increased. SI well until SI pressure reached 200 psi, and at approximately 5:00 PM reopened flow through production unit and to sales at a rate of 400 MCFD. Flowed approximately 231 MCF overnight. Currently flowing about 530 MCFD with FTP of 220 psi.

11/19/2011 Flowed approximately 592 MCF in last 24 hours with FTP of 238 psi and CP of 274 psi. Currently flowing about 600 MCFD.

11/20/2011 Flowed approximately 642 MCF in last 24 hours with FTP of 209 psi and CP of 246 psi. Currently flowing about 650 MCFD.

11/21/2011 Repaired fence around reserve pit and installed bird net supports. Produced 657 MCF in last 24 hours with FTP of 210 psi and CP of 243 psi. Currently flowing about 660 MCFD.

11/22/2011 Produced 657 MCF in last 24 hours with FTP of 202 psi and CP of 239 psi.

11/23/2011 Produced 559 MCF in last 24 hours with FTP of 213 psi and CP of 296 psi. RU slickline unit. Ran and landed pressure gauges in X-nipple at 4494' KB. RD slickline unit. Returned well to production. Well was shut in for a couple of hours during the slickline service and with a malfunctioning separator dump valve.

11/24/2011 Produced 531MCF in last 24 hours with FTP of 213 psi and CP of 296 psi. Shut well in at 11:51 AM for pressure build-up. Flow rate at SI was 690 MCFD with FTP of 215 psi.

11/25/2011 Shut-in for pressure build-up. 8:00 AM SITP is 740 psi and SICP is 757 psi.

11/26/2011 Shut-in for pressure build-up. 8:00 AM SITP is 902 psi and SICP is 920 psi.

11/27/2011 Shut-in for pressure build-up. 8:00 AM SITP is 911 psi and SICP is 933 psi.

11/28/2011 Shut-in for pressure build-up. 8:00 AM SITP is 911 psi and SICP is 938 psi.

11/29/2011 Shut-in for pressure build-up. 8:00 AM SITP is 919 psi and SICP is 944 psi.

11/30/2011 Shut-in for pressure build-up. 8:00 AM SITP is 932 psi and SICP is 949 psi.

12/1/2011 Final SITP is 906 psi and SICP is 940 psi. Opened well at 6:20 AM on 11/30/2011 and conducted variable rate test. Flowed with final rate of 301 MCFD, FTP of 800 psi, and CP of 820 psi at 11:10 AM. Increased rate and flowed with final rate of 591 MCFD, FTP of 533 psi, and CP of 563 psi at 5:50 PM. Opened choke to flow at TP of approximately 340 psi and left well flowing to production overnight.

12/2/2011 Continued flowing with final rate of 698 MCFD, FTP of 337 psi, and CP of 367 psi at 9:10 AM on 12/1/2011. Opened well to flow at line pressure. RU slickline unit and retrieved pressure gauges. Returned well to production. Final BHP during buildup was 1075 psi.

12/3/2011 Produced 736 MCF in last 24 hours with FTP of 210 psi and CP of 267 psi.

12/4/2011 Produced 723 MCF in last 24 hours with FTP of 212 psi and CP of 247 psi.

12/5/2011 Produced 709 MCF in last 24 hours.

12/6/2011 Produced 702 MCF in last 24 hours.

End of reports. Well Completed for 702 MCF/Day.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB NO. 1004-0137  
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.  
UTU-085274

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other: \_\_\_\_\_

6. If Indian, Allottee or Tribe Name  
NA

7. Unit or CA Agreement Name and No.  
NA

2. Name of Operator  
Summit Operating, LLC

8. Lease Name and Well No.  
Cactus Park 7-19-36-25

3. Address 1245 E. Brickyard Rd. Ste 210  
Salt Lake City, UT 84106

3a. Phone No. (include area code)  
435-940-9001

9. API Well No.  
43-037-31914

4. Location of Well (Report location clearly and in accordance with Federal requirements)\*

SWNE Sec. 19, T36S, R25E, 1947' FNL, 1890' FEL  
At surface 37.644579, -109.210672

10. Field and Pool or Exploratory  
Wildcat

11. Sec., T., R., M., on Block and  
Survey or Area Sec. 19, T.36S, R. 25E, SLM,  
SWNE

At top prod. interval reported below  
same

12. County or Parish  
San Juan

13. State  
UT

At total depth same

14. Date Spudded  
10/13/2011

15. Date T.D. Reached  
10/31/2011

16. Date Completed 12/16/2011  
☐ D & A ☒ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*  
5974' GL

18. Total Depth: MD 5952'  
TVD 5952'

19. Plug Back T.D.: MD 5866'  
TVD 5866'

20. Depth Bridge Plug Set: MD NA  
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
MPD/MDN, MAI/MFE, CBL

22. Was well cored? ☐ No ☒ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24"	16"		surface	56'		Redi-Mix		surface	0
12.25"	9-5/8"/J-55	36#	surface	1768'		442 sks Lite	165	surface	0
"	"	"	"	"		150 sks Type III	39	"	0
8.75"	5-1/2"/J-55	17#	surface	5964'		500 sks Lite	185	590'	0
"	"	"	"	"		575 sks Type III	146	"	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2-3/8"	4527' (KB)							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Horsehead Sandstone	4570'	4586'	4570' - 4586' KB	0.40"	60	
B) HNKRT						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, etc.

Depth Interval	Amount and Type of Material
4570' - 4586'	120 gallons of 15% HCl acid with additives.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/19/11	12/05/11	24	→	0	702	1	NA	0.71	Flowing Gas Well
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
NA	215	233	→	0	702	1	NA	Producing	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

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## 28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

## 29. Disposition of Gas (Solid, used for fuel, vented, etc.)

Sold

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

## 31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
Morrison	surface			Morrison Navajo	surface 846'
Horsehead Sandstone	4570'	4586'	sandstone	Chinle Honaker Trail	1630' 4380'
Hovenweep Shale	5688'	5750'	shale, black, cored 62', recovered 61.6'	Upper Ismay Hovenweep Shale	5584' 5676'
Gothic Shale	5790'	5821'	shale, black, cored 31', recovered 28'	Lower Ismay Gothic Shale	5740' 5790'
				Desert Creek Chimney Rock	5818' 5892'
				Akah	5913'

## 32. Additional remarks (include plugging procedure):

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## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ Electrical/Mechanical Logs (1 full set req'd.)     
 ☒ Geologic Report     
 ☐ DST Report     
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification     
 ☒ Core Analysis     
 ☐ Other:

## 34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Crystal Hammer

Title Geo Tech

Signature

Date 12/07/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 3)

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(Form 3160-4, page 2)

# CONFIDENTIAL

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 6

## ENTITY ACTION FORM

Operator: Summit Operating, LLC Operator Account Number: N 2315  
Address: 1245 Brickyard Rd., Ste 210  
city Salt Lake City  
state UT zip 84106 Phone Number: (435) 940-9001

### Well 1

API Number	Well Name	QQ	Sec	Twp	Rng	County
4303731914	Cactus Park 7-19-36-25	SWNE	19	36S	25E	San Juan
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
E	18277	18277	10/13/2011	12/16/2011		
Comments: Well TD'd in Honaker Trail Formation						
CONFIDENTIAL 12/28/11						

### Well 2

API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

### Well 3

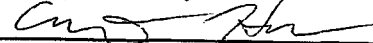
API Number	Well Name	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date	Entity Assignment Effective Date		
Comments:						

### ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Crystal Hammer

Name (Please Print)



Signature

Geo Tech

Title

12/28/2011

Date

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DEC 28 2011

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>
<b>3. ADDRESS OF OPERATOR:</b> 1245 Brickyard Road, Suite 210, Salt Lake City, UT, 84106		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000
<b>PHONE NUMBER:</b> 435 940-9001 Ext		<b>9. FIELD and POOL or WILDCAT:</b> WILDCAT
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 4/5/2012	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input checked="" type="checkbox"/> OTHER	
	OTHER: <input type="text" value="Report on Core Data"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Below is the core data for this well as an addendum to the completion report.		
<b>Accepted by the          Utah Division of          Oil, Gas and Mining          FOR RECORD ONLY          April 13, 2012</b>		
<b>NAME (PLEASE PRINT)</b> Crystal Hammer	<b>PHONE NUMBER</b> 435 940-9001	<b>TITLE</b> Geo Tech
<b>SIGNATURE</b> N/A	<b>DATE</b> 4/5/2012	



# **CMS-300 CONVENTIONAL PLUG ANALYSIS**

**Bill Barrett Corp.**  
Cactus Park # 7-19-36-25  
San Juan County, UT

**CL File Number: DEN-110090**

**Date: 2.10.2012**

This report is based entirely upon the core samples, soils, solids, liquids, or gases, together with related observational data, provided solely by the client. The conclusions, inferences, deductions and opinions rendered herein reflect the examination, study, and testing of these items, and represent the best judgement of Core Laboratories. Any reliance on the information contained herein concerning the profitability or productivity of any well, sand, or drilling activity is at the sole risk of the client, and Core Laboratories, neither extends nor makes any warranty or representation whatsoever with respect to same. This report has been prepared for the exclusive and confidential use of the client and no other party.

**Bill Barrett Corp.**  
Cactus Park # 7-19-36-25  
San Juan County, UT



CL File No.: DEN-110090  
Date: 2.10.2012  
Analyst(s): SK

### CMS-300 CONVENTIONAL PLUG ANALYSIS

Sample Number	Depth (ft)	Net Confining Stress (psig)	Porosity (%)	Permeability		b(air) psi	Beta ft(-1)	Alpha (microns)	Saturation			Grain Density (g/cm3)	Footnote
				Klinkenberg	Kair				Oil	Water	Gas		
				(md)	(md)				% Pore Volume				
1	5688.25	Ambient	2.62	***	***	***	***	***	37.8	37.2	25.0	2.648	(5)
2	5692.15	Ambient	2.98	-	-	-	-	-	29.7	7.6	62.7	2.659	(1)
2	5692.15	3220	1.56	.00009	.0008	314.26	7.32E+17	2.21E+05	-	-	-	2.659	
3	5695.15	Ambient	4.21	***	***	***	***	***	10.6	31.9	57.4	2.663	(5)
4	5698.15	Ambient	3.41	-	-	-	-	-	24.8	39.9	35.4	2.664	(1)
4	5698.15	3220	2.94	.815	.925	8.46	8.39E+10	2.23E+02	-	-	-	2.664	
5	5701.20	Ambient	2.83	-	-	-	-	-	0.9	24.4	74.6	2.666	(1)
5	5701.20	3220	2.43	.0007	.004	152.59	1.50E+16	3.49E+04	-	-	-	2.666	
6	5703.25	Ambient	2.46	***	***	***	***	***	0.5	59.6	39.9	2.669	(5)
7	5706.50	Ambient	1.89	-	-	-	-	-	22.0	31.0	47.0	2.679	(1)
7	5706.50	3220	1.21	.00008	.0007	331.65	9.66E+17	2.55E+05	-	-	-	2.679	
8	5709.45	Ambient	2.92	***	***	***	***	***	16.5	45.5	38.0	2.662	(5)
9	5713.25	Ambient	4.10	***	***	***	***	***	7.5	33.8	58.8	2.676	(5)
10	5716.10	Ambient	2.94	-	-	-	-	-	23.2	46.5	30.3	2.668	(1)
10	5716.10	3220	3.02	.007	.0226	66.80	1.80E+14	4.30E+03	-	-	-	2.668	
11	5719.25	Ambient	3.79	***	***	***	***	***	9.8	36.9	53.3	2.655	(5)
12	5723.40	Ambient	3.13	***	***	***	***	***	48.1	19.3	32.6	2.695	(5)

**Bill Barrett Corp.**  
Cactus Park # 7-19-36-25  
San Juan County, UT



CL File No.: DEN-110090

Date: 2.10.2012

Analyst(s): SK

**CMS-300 CONVENTIONAL PLUG ANALYSIS**

Sample Number	Depth (ft)	Net Confining Stress (psig)	Porosity (%)	Permeability		b(air) psi	Beta ft(-1)	Alpha (microns)	Saturation			Grain Density (g/cm3)	Footnote
				Klinkenberg	Kair				Oil	Water	Gas		
				(md)	(md)				% Pore Volume				
13	5726.10	Ambient	3.37	-	-	-	-	-	39.6	27.2	33.1	2.703	(1)
13	5726.10	3220	3.49	.008	.0239	65.96	1.68E+14	4.17E+03	-	-	-	2.703	
14	5729.15	Ambient	1.47	-	-	-	-	-	3.1	62.0	34.8	2.675	(1)
14	5729.15	3220	4.31	.006	.0198	71.37	2.50E+14	5.03E+03	-	-	-	2.675	
15	5733.55	Ambient	3.78	-	-	-	-	-	38.0	48.9	13.1	2.687	(1)
15	5733.55	3220	3.56	.003	.0122	89.99	8.33E+14	8.88E+03	-	-	-	2.687	
16	5736.75	Ambient	4.41	-	-	-	-	-	2.6	30.9	66.5	2.654	(1)
16	5736.75	3220	3.51	.0002	.001	238.86	1.75E+17	1.12E+05	-	-	-	2.654	
17	5738.80	Ambient	6.26	-	-	-	-	-	11.2	21.9	66.8	2.671	(1)
17	5738.80	3220	4.93	.0957	.113	4.58	2.31E+13	7.29E+03	-	-	-	2.671	
18	5742.80	Ambient	2.29	***	***	***	***	***	10.1	42.4	47.5	2.726	(5)
19	5745.20	Ambient	1.16	***	***	***	***	***	17.6	19.3	63.2	2.725	(2)
20	5748.70	Ambient	2.04	***	***	***	***	***	3.5	37.6	58.9	2.719	(5)
21	5791.40	Ambient	6.51	***	***	***	***	***	19.7	35.5	44.7	2.704	(5)
22	5794.10	Ambient	5.97	***	***	***	***	***	26.9	33.9	39.3	2.698	(5)
23	5797.30	Ambient	7.60	-	-	-	-	-	16.6	27.2	56.2	2.693	(1)
23	5797.30	3220	7.54	.0217	.0553	43.62	2.34E+13	1.64E+03	-	-	-	2.693	
24	5800.30	Ambient	5.08	***	***	***	***	***	37.8	32.3	29.8	2.718	(5)
25	5803.20	Ambient	6.93	-	-	-	-	-	30.7	23.1	46.2	2.667	(1)
25	5803.20	3220	7.27	.004	.0151	82.09	5.11E+14	7.05E+03	-	-	-	2.667	
26	5806.20	Ambient	6.26	-	-	-	-	-	18.0	32.7	49.3	2.703	(1)
26	5806.20	3220	6.84	.003	.0111	95.07	1.11E+15	1.02E+04	-	-	-	2.703	
27	5809.30	Ambient	6.75	***	***	***	***	***	33.1	23.9	43.0	2.697	(5)
28	5812.20	Ambient	8.94	***	***	***	***	***	33.0	27.2	39.8	2.692	(5)

**Bill Barrett Corp.**  
Cactus Park # 7-19-36-25  
San Juan County, UT



CL File No.: DEN-110090  
Date: 2.10.2012  
Analyst(s): SK

### CMS-300 CONVENTIONAL PLUG ANALYSIS

Sample Number	Depth (ft)	Net Confining Stress (psig)	Porosity (%)	Permeability		b(air) psi	Beta ft(-1)	Alpha (microns)	Saturation			Grain Density (g/cm3)	Footnote
				Klinkenberg	Kair				Oil	Water	Gas		
				(md)	(md)				% Pore Volume				
29	5814.25	Ambient	11.73	-	-	-	-	-	11.8	21.4	66.8	2.680	(1)
29	5814.25	3220	9.33	.008	.0256	64.44	1.51E+14	3.97E+03	-	-	-	2.680	
30	5817.20	Ambient	2.30	***	***	***	***	***	33.9	35.4	30.6	2.749	(2)

#### Footnotes :

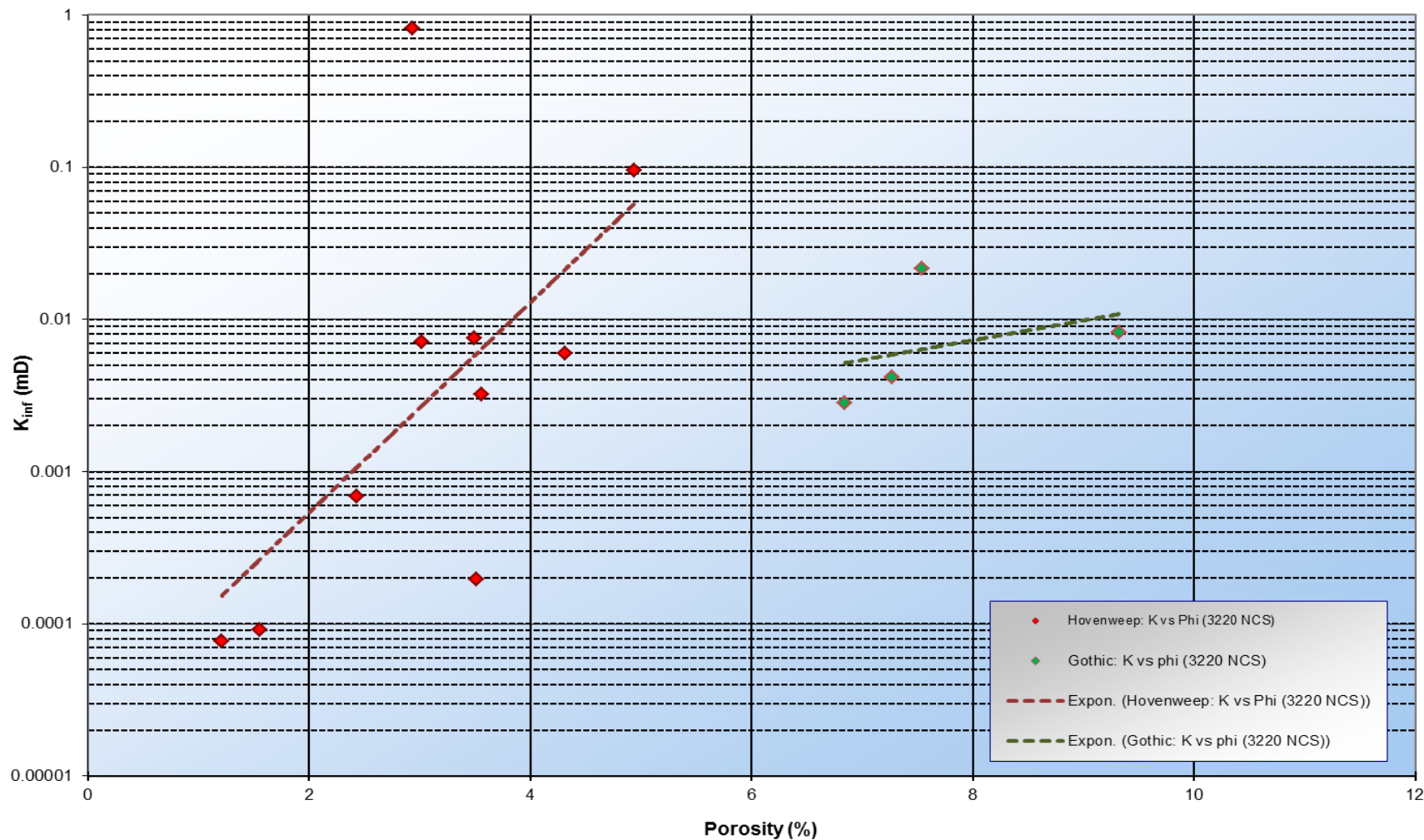
- (1) : Denotes fractured or chipped sample. Permeability and/or porosity may be optimistic.
- (2) : Sample permeability below the measurement range of CMS-300 equipment at indicated net confining stress (NCS). Data unavailable.
- (3) : Denotes very short sample, porosity may be optimistic due to lack of conformation of boot material to plug surface.
- (4) : Sample contains bitumen or other solid hydrocarbon residue.
- (5) : Denotes sample unsuitable for measurement at stress. Porosity determined using Archimedes bulk volume at ambient conditions.
- Permeability greater than 0.1 mD measured using helium gas. Permeability less than 0.1 mD measured using nitrogen gas. All b values converted to b (air)

Bill Barrett Corp.  
Cactus Park # 7-19-36-25  
San Juan County, UT



CL File No.: DEN-110090  
Date: 2.10.2012  
Analyst(s): SK

### PERMEABILITY VS. POROSITY @ 3220 NCS



**Bill Barrett Corp.**  
Cactus Park # 7-19-36-25  
San Juan County, UT



CL File No.: DEN-110090  
Date: 2.10.2012  
Analyst(s): SK

## APPENDIX A: EXPLANATION OF CMS-300 TERMS "b", "Beta, and "Alpha"

$K_{\infty}$	=	Equivalent non-reactive liquid permeability, corrected for gas slippage, mD
$K_{air}$	=	Permeability to Air, calculated using $K_{\infty}$ and b, mD
b	=	Klinkenberg slip factor, psi
$\beta$ (Beta)	=	Forcheimer inertial resistance factor, $ft^{-1}$
$\alpha$ (Alpha)	=	A factor equal to the product of Beta and $K_{\infty}$ . This factor is employed in determining the pore level heterogeneity index, $H_i$ .
$H_i$	=	$\log_{10} (\alpha\phi/RQI)$ <span style="margin-left: 100px;"><math>\alpha</math>, microns = <math>3.238E^{-9} \beta K_{\infty}</math></span>
$\phi$	=	Porosity, fraction
RQI	=	Reservoir Quality Index, microns
RQI	=	$0.0314(K/\phi)^{0.5}$

### For further information please refer to:

Jones, S.C.: "Two-Point Determination of Permeability and PV vs. Net Confining Stress" SPE Formation Evaluation (March 1988) 235-241.

Jones S.C.: "A Rapid Accurate Unsteady-State Klinkenberg Permeameter," Soc. Pet. Eng. J. (Oct. 1972) 383-397.

Jones, S.C.: "Using the Inertial Coefficient,  $\beta$ , To Characterize Heterogeneity in Reservoir Rock: SPE 16949 (September 1987).

Amaefule, J.O.; Kersey, D.G.; Marschall, D.M.; Powell, J.D.; Valencia, L.E.; Keelan, D.K.: "Reservoir Description: A Practical Synergistic Engineering and Geological Approach Based on Analysis of Core Data," SPE Technical Conference (Oct. 1988) SPE 18167.

**Bill Barrett Corp.**

Cactus Park # 7-19-36-25

San Juan County, UT



CL File No.: DEN-110090

Date: 2.10.2012

Analyst(s): SK

## **CMS-300 CONVENTIONAL PLUG ANALYSIS PROTOCOL**

### **Sample Preparation**

1.0" diameter plugs were drilled with liquid nitrogen and trimmed into right cylinders with a diamond-blade trim saw.

All sample trims were archived.

### **Core Extraction**

Plugs selected for routine core analysis were placed in Dean Stark equipment using toluene, followed by Soxhlet extraction in a chloroform / methanol (87:13) azeotrope.

### **Sample Drying**

Samples were oven dried at 240° F to weight equilibrium (+/- 0.001 g).

### **Porosity**

Porosity was determined using Boyle's Law technique by measuring grain volume at ambient conditions & pore volume at indicated net confining stresses (NCS).

### **Grain Density**

Grain density values were calculated by direct measurement of grain volume and weight on dried plug samples.

Grain volume was measured by Boyle's Law technique.

### **Permeability**

Permeability to air was measured on each sample using unsteady-state method at indicated NCS.

### **Fluid Saturations**

Fluid saturations were determined by the Dean Stark technique using the following fluid properties:

Brine	1.032 g/cc (50000 ppm TDS)
Oil	0.788 g/cc (48° API)

<b>STATE OF UTAH</b> DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		<b>FORM 9</b>			
<b>SUNDRY NOTICES AND REPORTS ON WELLS</b>  Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		<b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b> UTU-085274			
<b>1. TYPE OF WELL</b> Gas Well		<b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>			
<b>2. NAME OF OPERATOR:</b> SUMMIT OPERATING, LLC		<b>7. UNIT or CA AGREEMENT NAME:</b>			
<b>3. ADDRESS OF OPERATOR:</b> 531 East 770 North, Orem, UT, 84097		<b>8. WELL NAME and NUMBER:</b> CACTUS PARK 7-19-36-25			
<b>4. LOCATION OF WELL</b> <b>FOOTAGES AT SURFACE:</b> 1947 FNL 1890 FEL <b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b> Qtr/Qtr: SWNE Section: 19 Township: 36.0S Range: 25.0E Meridian: S		<b>9. API NUMBER:</b> 43037319140000			
<b>PHONE NUMBER:</b> 801-657-5780 Ext		<b>9. FIELD and POOL or WILDCAT:</b> CACTUS PARK			
<b>COUNTY:</b> SAN JUAN		<b>STATE:</b> UTAH			
<b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>					
<b>TYPE OF SUBMISSION</b>	<b>TYPE OF ACTION</b>				
<input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b> Approximate date work will start: 9/15/2017  <input type="checkbox"/> <b>SUBSEQUENT REPORT</b> Date of Work Completion:  <input type="checkbox"/> <b>SPUD REPORT</b> Date of Spud:  <input type="checkbox"/> <b>DRILLING REPORT</b> Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE  <input type="checkbox"/> CHANGE TO PREVIOUS PLANS  <input type="checkbox"/> CHANGE WELL STATUS  <input type="checkbox"/> DEEPEN  <input type="checkbox"/> OPERATOR CHANGE  <input type="checkbox"/> PRODUCTION START OR RESUME  <input type="checkbox"/> REPERFORATE CURRENT FORMATION  <input type="checkbox"/> TUBING REPAIR  <input type="checkbox"/> WATER SHUTOFF  <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING  <input type="checkbox"/> CHANGE TUBING  <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS  <input type="checkbox"/> FRACTURE TREAT  <input type="checkbox"/> PLUG AND ABANDON  <input type="checkbox"/> RECLAMATION OF WELL SITE  <input type="checkbox"/> SIDETRACK TO REPAIR WELL  <input type="checkbox"/> VENT OR FLARE  <input checked="" type="checkbox"/> SI TA STATUS EXTENSION  <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR  <input type="checkbox"/> CHANGE WELL NAME  <input type="checkbox"/> CONVERT WELL TYPE  <input type="checkbox"/> NEW CONSTRUCTION  <input type="checkbox"/> PLUG BACK  <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION  <input type="checkbox"/> TEMPORARY ABANDON  <input type="checkbox"/> WATER DISPOSAL  <input type="checkbox"/> APD EXTENSION            OTHER: <input style="width: 100px;" type="text"/> </td> </tr> </table>		<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input checked="" type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/>
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<b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b> This well was shut in on October 27, 2016. It will remain shut in for an indefinite period due to lack of market for the produced gas. Gas produced from this well requires processing to meet sale specifications and pipelines gathering this gas connect only to the Lisbon Gas Plant. The Lisbon Gas Plant is now shut down and there are no known plans to operate the facility in the foreseeable future. There are currently no other processing options for gas from this field, so this well will remain shut in until other processing arrangements become available.					
<div style="text-align: center;"> <b>Accepted by the Utah Division of Oil, Gas and Mining</b> </div> <div style="margin-top: 10px;"> <b>Date:</b> _____  <b>By:</b> <u><i>Derek Quist</i></u>          January 09, 2017       </div>		<div style="color: red; font-weight: bold; font-size: 1.2em;">         Please Review Attached Conditions of Approval       </div>			
<b>NAME (PLEASE PRINT)</b> Ellis Peterson		<b>PHONE NUMBER</b> 801 657-5780			
<b>SIGNATURE</b> N/A		<b>TITLE</b> Sr Petroleum Engineer			
<b>DATE</b> 11/7/2016					



**The Utah Division of Oil, Gas, and Mining**

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices**

**Sundry Conditions of Approval Well Number 43037319140000**

**In accordance with R649-3-36, a well may remain shut-in for up to 12 months without approval.**